# MEDICAL SURVEILLANCE PROCEDURES MANUAL AND MEDICAL MATRIX (EDITION 6)

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CAPTAIN R. L. BUCK, MC, USN Commanding Officer

# MEDICAL SURVEILLANCE PROCEDURES MANUAL AND MEDICAL MATRIX (Edition 6)

Questions about the Medical Surveillance Procedures Manual and Medical Matrix (Edition 6) as well as requests for assistance in implementation and review of programs should be directed to the occupational health staff at the following locations:

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#### FORWARD

This update of the Medical Matrix is the result of work of a group of individuals dedicated to this task. Work was initiated by members of the Medical Matrix Committee with significant assistance from staff at the Navy Environmental Health Center.

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#### INTRODUCTION

1.1 Medical screening examination as part of a medical surveillance program is one of several tools aimed at protecting workers who are exposed or potentially exposed to hazardous substances in the workplace.

A medical surveillance program includes establishing exam content, performing occupational medical examinations, documenting results of examinations, informing the employee of the results of examination, following up abnormalities, counseling and education, and evaluating grouped data for trends and subclinical effects of exposure.

Selection of personnel for medical surveillance programs is based primarily on the results of the industrial hygiene survey and is exposure driven. This is known as "hazard based" medical surveillance. In the absence of industrial hygiene data, medical personnel will make a decision on placement in medical surveillance programs based on knowledge of the workplace, job requirements and review of occupational history.

Exam content is established in the Medical Matrix for performing hazard based medical examinations and certification examinations. This document establishes the minimum requirements for medical surveillance and certification examinations.

Special attention in performing occupational medical examinations is given to those target organs or organ systems potentially subject to the untoward effects of hazardous substances whether by inhalation, absorption or ingestion. Elements of examination include specific history questions (personal and family medical history, and work history), physical examination, x-ray, biological monitoring (testing of body fluids or tissues for the toxic substance itself, a metabolite or a physiologic change), and other laboratory and ancillary tests such as EKG, PFT and audiogram. Conducting occupational medical examinations to detect early organ dysfunction or early disease to benefit individual workers is "screening" or "monitoring" and constitutes secondary prevention.

Workers must be informed of the results of the occupational medical examination with documentation in the medical record.

An integral component of the occupational medical examination is follow-up. Follow-up may include notification, additional tests or evaluation, evaluation or modification of the workplace or removal from exposure. Workers who receive occupational medical examinations should be informed of any specific health risks identified on examination. Certain OSHA programs require written notification in the form of Physician's Written Opinions. Examples are included in Appendix E.

- 1.2 Types of Occupational Medical Examinations: Most medical surveillance programs consist of examinations for baseline (preplacement), periodic and termination. If there is evidence of overexposure, a situational examination will be required. Guidelines for situational examinations are not included in the Medical Matrix.
- 1.2.1 Baseline Examination (Preplacement or Pre-assignment) This examination is performed before the employee starts work in a position with a potential for hazardous exposure and provides information necessary to determine suitability of the employee for the job. It also provides a baseline against which changes can be compared.
- 1.2.2 Periodic Examination This examination is performed during the time that a worker is employed in a job with a potential for exposure to hazardous substances. The frequency and extent of periodic examinations vary, depending on the program. With certain stressors, the frequency of examinations will also depend on other variables, such as the findings from previous examinations, the history of exposure or the age of the worker.
- 1.2.3 Termination Examination This examination is performed when the worker terminates employment or is permanently removed from a position which has a potential for exposure to a hazardous substance. Documentation of the worker's state of health at the termination of employment or exposure is essential for comparison purposes if the worker later develops medical problems that could be attributed to past occupational exposures. In some cases, this examination is not required if a periodic examination has been documented within the past twelve months.
- 1.2.4 Situational Examination This examination is conducted in response to a specific incident for which a possible overexposure to a hazardous substance is suspected. Such an incident should prompt these examinations on all individuals with suspected overexposure, not just those already in a surveillance program. These examinations may vary significantly from routine medical surveillance protocols.

#### References

- 1. Halperin W, Ratcliffe J, Frazier T, et al. Medical Screening in the workplace: proposed principles, J Occup Med. 1986;28:547-552.
- 2. Matte T, Fine L, Meinhardt T, et al. Guidelines for medical screening in the workplace, Occup Med.: State of the Art Reviews. 1990;5:439-456.
- 3. Silverstein M. Medical Screening, Surveillance, and the Prevention of Occupational Disease. J Occup Med. 1990;32:1032-1036.
- 4. Baker E, Honchar, P, Fine, L, et al. Surveillance in Occupational Illness and Injury: Concepts and Content, Am J. of Public Health. 1989;79:9-11.

# 1.3 Content of Medical Examinations:

A list containing history questions, components of physical examinations and laboratory tests was developed as a reference file and used to construct the content of each program in the Medical Matrix. Each item in the reference file is called a "test". The tests are divided into similar categories such as Medical History, Cardiology, Spirometry, etc., and numbered in sequence. All tests used in construction of the Matrix are displayed in Appendix A. Below is an outline of the major categories of tests and the corresponding numbers in the reference file.

	Test Numbers
Medical History	
Personal History of:	1100 - 1999
Work History of:	2000 - 2099
Family History of:	2500 - 2599
Laboratory:	
Hematology	3100 - 3199
Serum Chemistry	3500 - 3699
Urinalysis	4000 - 4299
Cytology	4500 - 4599
Other Laboratory Tests	4800 - 4899
Cardiology	5000 - 5099
Audiology	5200 - 5299
Radiology	5400 - 5499
Spirometry	5600 - 5699
Optometry	5800 - 5899
Physical Exam	6010 - 6999
Qualifications	7100 - 7199
Certifications	7500 - 7799
Hearing Conservation	8000 - 8199
Special Notations	9010 - 9099

# 1.4 Twelve Standard Questions:

There are twelve (12) standard questions included in each Medical Matrix program designed to help assess public health and safety risk factors for each worker. These questions were written for inclusion in data collection protocol when developed. The standard twelve questions are:

- 1. Is Your Work Exposure History Current (OPNAV 5100/15)
- 2. Major Illness or Injury
- 3. Hospitalization or Surgery
- 4. Cancer
- 5. Back Injury
- 6. Do you drink 6 or more drinks per week? (beer, wine, liquor)
- 7. Have you ever smoked?
- 8. Do you currently smoke? (packs/day)
- 9. Heart Disease, High Blood Pressure or Stroke
- 10. Current Medication Use (Prescription or OTC)
- 11. Allergies (Include Medications)
- 12. Any reproductive health concerns?

#### PLACEMENT OF WORKERS IN MEDICAL SURVEILLANCE PROGRAMS

2. Workers with potential exposure to hazards are usually placed in medical surveillance programs based on industrial hygiene (IH) and/or safety surveys which quantify exposures in the workplace. This has been called "hazard based" medical surveillance. Workplace hazard assessment takes into account exposure levels (frequency and duration), and routes of exposure (inhalation, skin absorption or ingestion).

The decision to include an individual in a program is normally based on the possibility of exposure at or above the action level set by U.S. Navy standards which must comply with Occupational Safety and Health Administration (OSHA) standards. If insufficient data or no data are available, individuals may be placed in medical surveillance based on "presumed" exposures and job title. When this happens, individuals need to be reassessed as IH data are obtained and included or excluded from medical surveillance as appropriate.

Workers whose jobs are associated with exposures to hazards at or above the medical surveillance action level for more than 30 days per year or 15 days per quarter are placed into medical surveillance programs. When there is no legal standard for medical examinations for specific agents, or when there are insufficient data to demonstrate compliance with a high degree of confidence, half of a recommended exposure limit, (i.e., Threshold Limit Value), may be used as the action level. Some programs have specific guidance for placement; asbestos, organophosphate pesticide workers, hearing conservation, sight conservation, and radiation workers.

# HOW TO USE THE MEDICAL MATRIX

# 3.1 History of Development:

The Medical Matrix Validation Committee was formed in March 1988. Its tasking was to review an existing Medical Matrix and design a process which would support hazard based medical surveillance. The goal of the Committee became development of standard examination protocols for medical surveillance programs which could be presented in a useable format. The original Matrix was published as a Navy Environmental Health Center (NAVENVIRHLTHCEN) Technical Manual in January, 1989.

The Medical Matrix Committee continues to review existing programs, evaluate the need for, and write new programs for those stressors which have **chronic** health effects. See Appendix B for a list of those stressors reviewed and for which no evidence of chronic health effects could be found. This list will be reviewed periodically and amended as new information indicates.

Situations may arise where industrial hygiene data indicate overexposure to a stressor and there is no corresponding matrix program for that stressor. Substitution of a closely related matrix program may be done after review of the toxicity of the stressor by an occupational medicine specialist. Any appropriate modifications can be hand written on the forms generated. Request for review of a new program should be sent to the Matrix Committee (see Appendix D).

#### 3.2 Explanation of Contents:

The Medical Matrix, Edition 6, contains medical surveillance and certification examinations divided into four major sections with each section preceded by a brief introduction.

Each program is organized in the same format:

- First, medical history questions; personal, work and family.
- Second, recommended laboratory or ancillary (EKG, PFT, audiogram) tests.
- Third, areas which should be targeted on physical examination; CNS, respiratory system, liver, for example.
- Last, special requirements such as qualification and certification are listed, followed by special notations such as warnings, assessment of knowledge and requirement for Physician's Written Opinion.

Each section ends with a line prompting for comments on that section, if indicated.

Following each program is a Program Description section which includes:

- General references are included as numbers which correspond to the reference list found in Appendix C. These general texts were used in developing each program and are additional resources. Specific references such as Navy instructions, OSHA Standards, Department of Defense, Office of Civilian Personnel Management or Civilian Personnel Instructions are listed in the program description.
- NOTE: References listed were current at the time of publication However, individual users are cautioned of their responsibility to ensure use of the most current.
- Detailed guidance and interpretation may be included to further explain the program.
- Date of most recent revision.

The **Provider Comments** section may contain more detailed information about the program including guidance about the examination, how to interpret test results, and what to do with test results which are outside the range of normal.

3.3 Four divisions of the matrix:
Chemical Stressors
Physical Stressors
Mixed Exposures
Special Examinations

# Chemical Stressors Introduction and Changes

All programs in this section were reviewed and updated.

A new program, number 217, 1,3-Butadiene, was created to meet the requirments of the OSHA standard.

All new tests are printed in **bold** letters.

# 102 2-ACETYLAMINOFLUORENE

STRESSOR(S) IN THIS PROGRAM: NIOSH# CAS# 2-ACETYLAMINOFLUORENE AB9450000 53-96-3

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1003

EXAM ELEMENT ELEMENT GIVEN FOR:	BASE PERI LINE ODIC	
MEDICAL HISTORY: HAVE YOU EVER HAD?		
PERSONAL HISTORY OF:		
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)	YES ANNUAL	YES
MAJOR ILLNESS OR INJURY	YES ANNUAL	YES
HOSPITALIZATION OR SURGERY	YES ANNUAL	YES
CANCER	YES ANNUAL	YES
BACK INJURY	YES ANNUAL	YES
CANCER BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)		
HAVE YOU EVER SMOKED	YES ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES ANNUAL	YES
HAVE YOU EVER SMOKED  DO YOU CURRENTLY SMOKE (PACKS/DAY)  HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE  CURRENT MEDICATION USE (PRESCRIPTION OR OTC)  MEDICATION ALLERGIES	YES ANNUAL	YES
MEDICATION ALLERGIES	YES ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERNS	YES ANNUAL	YES
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES ANNUAL	YES
TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRUGS	YES ANNUAL	YES
CURRENT PREGNANCY (SELF OR SPOUSE)	YES ANNUAL	YES
IMPOTENCE OR SEXUAL DYSFUNCTION	YES ANNUAL	YES
INFERTILITY OR MISCARRIAGE (SELF OR SPOUSE)	YES ANNUAL	YES
FAMILY HISTORY OF: GENETIC DISEASE (INCLUDE CHILDREN) CANCERS (LEUKEMIA, TUMORS) COMMENTS ON FAMILY HISTORY:	YES ANNUAL	VEC
GENETIC DISEASE (INCLUDE CHILDREN) CANCERS (LEUKEMIA, TUMORS)	YES ANNUAL	
COMMENTS ON FAMILY HISTORY:	YES ANNUAL	
	IES ANNUAL	IES
PHYSICAL EXAMINATION:		
VITAL SIGNS	YES ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION TO:		
IMMUNOCOMPETENCE (LYMPHATIC SYSTEM)	YES ANNUAL	
OTHER APPROPRIATE EXAMINATION (SPECIFY)	YES ANNUAL	
SPECIAL ATTENTION IN EXAMINATION TO: IMMUNOCOMPETENCE (LYMPHATIC SYSTEM) OTHER APPROPRIATE EXAMINATION (SPECIFY) COMMENTS ON PHYSICAL EXAMINATION:	YES ANNUAL	YES
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CARCINOGEN SUBSTANCE(S) SUSPECTED HUMAN MUTAGENIC/FETOTOXIC EFF.	VEC ANNUIAT	VEC
SIBGLYMCE(S) SIGDECLED HIMYN WILLYGEMIC, EELLOACAIG ELL	ALG VIMILYI TEP VIMINTY	ALC
PHYSICIAN'S WRITTEN OPINION REQUIRED	YES ANNUAL	

EXAM ELEMENT ELEMENT GIVEN FOR: BASE PERI TERM LINE ODIC EXAM

IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW YES ANNUAL YES ARE ANY ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS YES ANNUAL YES LISTED BELOW?

#### PROGRAM DESCRIPTION:

This compound was being developed as a pesticide until carcinogenic activity was discovered. In recent years, it has been used only in laboratories as a model of tumorigenic activity in animals. It is of little occupational health importance. References: (3); (5); (other); 29 CFR 1910.1003. Former standard 19 CFR 1910.1014. PROGRAM REVISED 10/97.

# 103 ACRYLAMIDE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # ACRYLAMIDE AS3325000 9-6-

PROGRAM FREQUENCY: ANNUAL

PROGRAM PREQUENCI: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:		PERI ODIC	
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/1	5) YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY	YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY	YES	ANNUAL	YES
CANCER	YES	ANNUAL	YES
BACK INJURY	YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE		ANNUAL	
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)		ANNUAL	
MEDICATION ALLERGIES		ANNUAL	
ANY REPRODUCTIVE HEALTH CONCERNS		ANNUAL	
TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRUGS		ANNUAL	
WEIGHT LOSS		ANNUAL	
NEUR DISORDER, GAIT CHANGE, PARESTHESIA, COORD LOSS FAMILY HISTORY OF:		ANNUAL	
CANCERS (LEUKEMIA, TUMORS)		ANNUAL	
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	YES
PHYSICAL EXAMINATION:			
VITAL SIGNS	YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION TO:			
CENTRAL NERVOUS SYSTEM	YES	ANNUAL	YES
PERIPHERAL NERVOUS SYSTEM (STRENGTH, SENSATION, DTR	) YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (SPECIFY)  COMMENTS ON DHYSICAL FYAMINATION:	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:	YES	ANNUAL	YES
SPECIAL NOTATIONS:			
SUBSTANCE(S) SUSPECTED HUMAN CARCINOGEN	YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
IS SURVEILLANCE/PPE CONSISTENT WITH BELOW	EXPOSURES LISTED	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO EXILISTED BELOW	POSURES/OCCUPATIONS	YES	ANNUAL	YES
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (4); (OTHER); NIOSH Criteria for a Written Standard...Occupational Exposure to Acrylamide DHEW Pub No. 77-112. PROGRAM REVISED 10/97.

# 104 ACRYLONITRILE (VINYL CYANIDE)

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # ACRYLONITRILE AT5250000 07-13-1

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1045

OSHA STANDARD 29 CFR 1910.1045				
EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	
MEDICAL HISTORY: HAVE YOU EVER H	AD?			
PERSONAL HISTORY OF:	GUDDENTE (ODNING E100 (15)			
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)		ANNUAL	
MAJOR ILLNESS OR INJURY			ANNUAL	
HOSPITALIZATION OR SURGERY CANCER		YES YES	ANNUAL	
BACK INJURY			ANNUAL ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS	DED MEEK		ANNUAL	
(BEER, WINE, LIQUOR)	PER WEEK	IFS	AMNUAL	IES
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS	/DAY \		ANNUAL	
HEART DISEASE, HIGH BLOOD PRE		YES	ANNUAL	
CURRENT MEDICATION USE (PRESC)			ANNUAL	
MEDICATION ALLERGIES	RIPIION OR OIC)	YES	ANNUAL	
ANY REPRODUCTIVE HEALTH CONCE	DMC	YES	ANNUAL	
SKIN DISEASE	KIND	YES	ANNUAL	
LUNG/RESP DISEASE (EX:COPD, B)	PONCHITTS DNFIMONITTS)		ANNUAL	
TREATMENT WITH STEROIDS OR CA			ANNUAL	
HEADACHE, DIZZINESS, LIGHT-HE			ANNUAL	
CHEST PAIN, ANGINA, HEART ATT			ANNUAL	
SHORTNESS OF BREATH	ACR, TABITIATIONS	YES	ANNUAL	
COUGH (DRY OR PRODUCTIVE)		YES	ANNUAL	
PNEUMONIA		YES	ANNUAL	
CHRONIC ABDOMINAL PAIN, VOMIT	ING OTHER GI SYMPTOMS	YES	ANNUAL	
LIVER DISEASE	ind, dimin di bini idne	YES	ANNUAL	
KIDNEY DISEASE		YES	ANNUAL	
PROBLEMS WITH BALANCE AND COO	RDINATION	YES	ANNUAL	
PROBLEMS WITH NUMBNESS, TINGL		YES	ANNUAL	
HANDS OR FEET				
THYROID DISEASE (HEAT OR COLD	INTOLERANCE)	YES	ANNUAL	YES
DEPRESSION, DIFF CONCENTRATING		YES	ANNUAL	YES
PERSONALITY CHANGE	•	YES	ANNUAL	YES
FAMILY HISTORY OF:				
CANCERS (LEUKEMIA, TUMORS)		YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
		LIND	ODIC	1121211-1
LABORATORY-				
SERUM CHEMISTRY:				
LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILIRUBI	NI ALIZ DILOC	VE C	NO	VEC.
SGOT (AST), TOT. BILIROBE SGOT (AST)	N, ALK PHOS.		ANNUAL	
ADDITIONAL LAB TESTS:		IEO	AMMOAL	IES
STOOL HEMOCCULT (OVER AGE 4	0)	YES	ANNUAL	YES
RADIOLOGY-		110	1111101111	120
CHEST X-RAY (PA)		YES	ANNUAL	YES
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINAT	ION TO:			
CENTRAL NERVOUS SYSTEM			ANNUAL	
•	STRENGTH, SENSATION, DTR)		ANNUAL	
CARDIOVASCULAR SYSTEM			ANNUAL	
ABDOMEN			ANNUAL	
LIVER			ANNUAL ANNUAL	
RESPIRATORY SYSTEM SKIN (RASH, EROSION, ULCER,	DICMENT ECZEMA ETC		ANNUAL	
THYROID	PIGMENI, ECZEMA, EIC)	AEC	ANNUAL	VEC
OTHER APPROPRIATE EXAMINATION	(CDFCTFV)		ANNUAL	
COMMENTS ON PHYSICAL EXAMINATION	,		ANNUAL	
COMMENTS ON THISTCAL EXAMINATIO	IV.	1110	ANNOAL	150
SPECIAL NOTATIONS:				
SUBSTANCE(S) SUSPECTED HUMAN	CARCINOGEN	YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OPINION R	EQUIRED	YES	ANNUAL	YES
	_			
IS SURVEILLANCE/PPE CONSISTENT	WITH EXPOSURES LISTED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED T	O EXPOSURES/OCCUPATIONS	YES	ANNUAL	YES
LISTED BELOW				
RECOMMENDATIONS:		YES	ANNUAL	YES

See Appendix G for recommendations from American Cancer Society for performing the Hemoccult II. REFERENCES: (1); (2); (3); (4); (OTHER); 29 CFR 1910.1045. PROGRAM REVIEWED 10/97.

# PROVIDER COMMENTS:

# 105 ALLYL CHLORIDE

STRESSOR(S) IN THIS PROGRAM:

ALLYL CHLORIDE

NIOSH # CAS #

IIC7350000 107-05-1

ALLYL CHLORIDE	UC7350000	107-05	-1
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100)	/15) YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY		ANNUAL	NO
HOSPITALIZATION OR SURGERY		ANNUAL	NO
CANCER		ANNUAL	NO
BACK INJURY		ANNUAL	_
DO YOU DRINK 6 OR MORE DRINKS PER WEEK		ANNUAL	NO
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)		ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
SKIN DISEASE	YES	ANNUAL	NO
HEPATITIS OR JAUNDICE	YES	ANNUAL	NO
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONIT	IS) YES	ANNUAL	NO
CHANGE OR LOSS OF VISION	YES	ANNUAL	NO
EYE IRRITATION	YES	ANNUAL	NO
LIVER DISEASE	YES	ANNUAL	NO
KIDNEY DISEASE	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY-			
SERUM CHEMISTRY:			
LIVER PROFILE TO INCLUDE:			
SGOT (AST), TOT. BILIRUBIN, ALK. PHOS.	YES	ANNUAL	NO
BUN AND CREATININE		ANNUAL	NO
URINALYSIS:	-		
ROUTINE:			
URINALYSIS WITH MICROSCOPIC	YES	ANNUAL	NO

EXAM ELEMENT	EXAM	GIVEN	FOR:	BASE LINE		TERM EXAM
RADIOLOGY- CHEST X-RAY (PA) SPIROMETRY-				YES	NO	NO
SPIROMETRY (FVC, FEV1, FEV1/FVC) COMMENTS ON LABORATORY RESULTS:				YES YES	ANNUAL ANNUAL	NO NO
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION TO:				YES	ANNUAL	NO
EYES				YES	ANNUAL	NO
LIVER				YES	ANNUAL	NO
MUCOUS MEMBRANES				YES	ANNUAL	NO
RESPIRATORY SYSTEM				YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PIGMENT,	ECZEM	A, ETC	)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SPECIFY)				YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:				YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH EXPOS ARE ANY ABNORMALITIES RELATED TO EXPOSURE LISTED BELOW				YES YES	ANNUAL ANNUAL	NO NO
RECOMMENDATIONS:				YES	ANNUAL	NO

REFERENCES (3); (4); (OTHER); NIOSH Criteria For a Recommended Standard...Occupational Exposure to Allyl Chloride DHEW Pub No. 76-204. PROGRAM REVISED 10/97.

# 106 4-AMINODIPHENYL

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # 4-AMINODIPHENYL DU8925000 92-67-1

PROGRAM FREOUENCY: ANNUAL

PROGRAM FREQUENCY: ANNUAL				
OSHA STANDARD 29 CFR 1910.1003				
EXAM ELEMENT	ELEMENT GIVEN FOR: BAS	E	PERI	TERM
			ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD PERSONAL HISTORY OF:	?			
IS YOUR WORK EXPOSURE HISTORY CU	RRENT (OPNAV 5100/15) YES	I	ANNUAL	YES
MAJOR ILLNESS OR INJURY	YES	I	ANNUAL	YES
HOSPITALIZATION OR SURGERY	YES	I	ANNUAL	YES
CANCER	YES	I	ANNUAL	YES
BACK INJURY	YES	I	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS PE (BEER, WINE, LIOUOR)	R WEEK YES	I	ANNUAL	YES
HAVE YOU EVER SMOKED	YES	I	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/DA	Y) YES	I	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESSU		I	ANNUAL	YES
CURRENT MEDICATION USE (PRESCRIP	TION OR OTC) YES	I	ANNUAL	YES
MEDICATION ALLERGIES	YES	I	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERNS	YES	I	ANNUAL	YES
TREATMENT WITH STEROIDS OR CANCE	R (CYTOTOXIC) DRUGS YES	I	ANNUAL	YES
DECREASED IMMUNITY	YES	7	ANNUAL	YES
PROBLEMS WITH URINATION/BLOOD IN	URINE YES	I	ANNUAL	YES
CURRENT PREGNANCY (SELF OR SPOUS		I	ANNUAL	YES
IMPOTENCE OR SEXUAL DYSFUNCTION		I	ANNUAL	YES
INFERTILITY OR MISCARRIAGE (SELF			ANNUAL	
FAMILY HISTORY OF:				
GENETIC DISEASE (INCLUDE CHILDRE	N) YES	I	ANNUAL	YES
CANCERS (LEUKEMIA, TUMORS)	YES	I	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:	YES	I	ANNUAL	YES
LABORATORY: URINALYSIS: ROUTINE:				
URINALYSIS WITH MICROSCOPIC	YES	I	ANNUAL	YES
COMMENTS ON LABORATORY RESULTS:	YES	I	ANNUAL	YES
PHYSICAL EXAMINATION:				
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION T	O. YES	I	ANNUAL	YES
IMMUNOCOMPETENCE (LYMPHATIC SYST		I	ANNUAL	YES
·				

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		REM OVAL
OTHER APPROPRIATE EXAMINATION (SP COMMENTS ON PHYSICAL EXAMINATION:	ECIFY)	YES YES	ANNUAL ANNUAL	YES YES
SPECIAL NOTATIONS: SUBSTANCE(S) KNOWN HUMAN CARCINOG PHYSICIAN'S WRITTEN OPINION REQUI		YES YES	ANNUAL ANNUAL	YES YES
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX LISTED BELOW		W YES YES	ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (3); (OTHER); 29 CFR 1910.1003. Former standard 29 CFR 1910.1011. PROGRAM REVISED 10/97

#### 109 ANTIMONY

STRESSOR(S) IN THIS PROGRAM:

ANTIMONY

ANTIMONY TRIOXIDE (HANDLING & USE)

NIOSH # CAS #

7440-36-0

CC5650000 1309-64-4

PROGRAM FREQUENCY: ANNUAL BASE PERI EXAM ELEMENT ELEMENT GIVEN FOR: TERM LINE ODIC EXAM MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) YES ANNUAL YES MAJOR ILLNESS OR INJURY YES ANNUAL YES HOSPITALIZATION OR SURGERY YES ANNUAL YES YES ANNUAL YES CANCER YES ANNUAL YES BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PER WEEK? YES ANNUAL YES (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED YES ANNUAL YES YES ANNUAL YES DO YOU CURRENTLY SMOKE (PACKS/DAY) YES ANNUAL YES HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE YES ANNUAL YES CURRENT MEDICATION USE (PRESCRIPTION OR OTC) YES ANNUAL YES MEDICATION ALLERGIES ANY REPRODUCTIVE HEALTH CONCERNS YES ANNUAL YES YES ANNUAL YES SKIN DISEASE LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS) YES ANNUAL YES TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRUGS YES ANNUAL YES EYE IRRITATION YES ANNUAL YES YES ANNUAL YES SHORTNESS OF BREATH CHRONIC ABDOMINAL PAIN, VOMITING, OTHER GI SYMPTOMS YES ANNUAL YES WORK HISTORY OF: YES ANNUAL YES EXP TO SKIN IRRITANTS FAMILY HISTORY OF: CANCERS (LEUKEMIA, TUMORS) YES ANNUAL YES YES ANNUAL YES COMMENTS ON MEDICAL HISTORY: LABORATORY-CARDIOLOGY: ELECTROCARDIOGRAM YES NO YES RADIOLOGY: CHEST X-RAY (PA) YES NO YES COMMENTS ON LABORATORY RESULTS:

EXAM ELEMENT	ELEMENT (	GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:						
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:			YES	ANNUAL	YES
CARDIOVASCULAR SYSTEM				YES	ANNUAL	YES
EYES				YES	ANNUAL	YES
MUCOUS MEMBRANES				YES	ANNUAL	YES
RESPIRATORY SYSTEM				YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER, PIG	MENT, ECZI	EMA, I	ETC)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (SP	ECIFY)			YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:				YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH	EXPOSURES	S LIST	TED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO EXLISTED BELOW	IPOSURES/O	CCUPA:	TIONS	YES	ANNUAL	YES
RECOMMENDATIONS:				YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (4); (OTHER); NIOSH Criteria for a Recommended Standard...Occupational Exposure to Antimony, DHEW Pub No. 78-216. PROGRAM REVISED 10/97.

#### 111 ARSENIC

# (EMPLOYEES NOT COVERED BY PROGRAM 112)

STRESSOR(S) IN THIS PROGRAM:

CALCIUM ARSENATE

ARSENIC ACID, LEAD (2+) SALT (2:3)

ARSENIC (INORGANIC & SOLUBLE COMPOUNDS)

CG0525000

NIOSH #
CAS #
CG0830000
7778-44-1
CG0990000
3687-31-8
CG0525000
7440-38-2

PROGRAM FREQUENCIES: SEMI ANNUAL

OSHA STANDARD 29 CFR 1910.1018

EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	
MEDICAL HISTORY: HAVE YOU EVER	מתעח			
PERSONAL HISTORY OF:	HAD:			
IS YOUR WORK EXPOSURE HISTOR	OV CUDDENT (ODNAU 5100/15)	VEC	SEMI-A	VEC
MAJOR ILLNESS OR INJURY	(I CORRENT (OPNAV S100/15)		SEMI-A SEMI-A	
HOSPITALIZATION OR SURGERY			SEMI-A SEMI-A	
			SEMI-A SEMI-A	
CANCER				
BACK INJURY	AC DED MEET	-	SEMI-A	
DO YOU DRINK 6 OR MORE DRINE	AS PER WEEK	YES	SEMI-A	YES
(BEER, WINE, LIQUOR)			CENTE A	
HAVE YOU EVER SMOKED			SEMI-A	
DO YOU CURRENTLY SMOKE			SEMI-A	
HEART DISEASE, HIGH BLOOD PI			SEMI-A	
CURRENT MEDICATION USE (PRES	SCRIPTION OR OTC)		SEMI-A	
MEDICATION ALLERGIES			SEMI-A	
ANY REPRODUCTIVE HEALTH CONC			SEMI-A	
ALLERGIES (ASTHMA, HAY FEVER	R, ECZEMA)		SEMI-A	
SKIN DISEASE			SEMI-A	
LUNG/RESP DISEASE (EX:COPD,			SEMI-A	
TREATMENT WITH STEROIDS OR (	CANCER (CYTOTOXIC) DRUGS		SEMI-A	
COUGHING UP BLOOD (HEMOPTYS:	IS)	YES	SEMI-A	YES
SHORTNESS OF BREATH		YES	SEMI-A	YES
COUGH (DRY OR PRODUCTIVE)		YES	SEMI-A	YES
PROBLEMS WITH NUMBNESS, TING	GLING, WEAKNESS	YES	SEMI-A	YES
IN HANDS OR FEET				
WORK HISTORY OF:				
10 OR MORE YRS SINCE FIRST I	EXP TO ARSENIC	YES	SEMI-A	YES
FAMILY HISTORY OF:				
CANCERS (LEUKEMIA, TUMORS)		YES	SEMI-A	YES
COMMENTS ON MEDICAL HISTORY:		YES	SEMI-A	YES
LABORATORY-				
CYTOLOGY:				
SPUTUM CYTOLOGY		YES	SEMI-A	YES
RADIOLOGY-				
CHEST X-RAY (PA)		YES	SEMI-A	YES
COMMENTS ON LABORATORY RESULTS:		YES	SEMI-A	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
PHYSICAL EXAMINATION:		TIME	ODIC	EXAM
VITAL SIGNS SPECIAL ATTENTION IN EXAM	INATION TO:	YES	SEMI-A	YES
-	EM (STRENGTH, SENSATION, DTR)	YES	SEMI-A	YES
CARDIOVASCULAR SYSTEM		YES	SEMI-A	YES
LIVER		YES	SEMI-A	YES
NASAL MUCOSA (SEPTAL PE	RFORATION)	YES	SEMI-A	YES
RESPIRATORY SYSTEM		YES	SEMI-A	YES
SKIN (RASH, EROSION, ULG	CER, PIGMENT, ECZEMA, ETC)	YES	SEMI-A	YES
OTHER APPROPRIATE EXAMINA	TION (SPECIFY)	YES	SEMI-A	YES
COMMENTS ON PHYSICAL EXAMINA	ATION:	YES	SEMI-A	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) KNOWN HUMAN (	CARCINOGEN	YES	SEMI-A	YES
PHYSICIAN'S WRITTEN OPINIO		YES	SEMI-A	YES
IS SURVEILLANCE/PPE CONSIST	ENT WITH EXPOSURES LISTED BELOW	YES	SEMI-A	YES
ARE ANY ABNORMALITIES RELATE	ED TO EXPOSURES/OCCUPATIONS	YES	SEMI-A	YES
RECOMMENDATIONS:		YES	SEMI-A	YES

When a specified examination has not been provided within six months preceding termination of employment, an examination must be provided upon termination of employment. REFERENCE: (OTHER); 1. 29 CFR 1910.1018; 2. 29 CFR 1910.134, Respiratory Protection 3. NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards, U.S. Department of Health and Human Services, 1988; 4. Morgan DP. Recognition and Management of Pesticide Poisonings, Fourth Edition. United States Environmental Protection Agency. 1989:54-61; (1); 5. Klaassen CD, Amdur MO, Doull J. Cassarett and Doull's Toxicology, Third Edition. New York, NY: Macmillan Publishing Co. 1986:588-591; 6. International Agency For Research On Cancer. IARC Monographs On The Evaluation Of The Carcinogenic Risk Of Chemicals To Humans. Switzerland: World Health Organization. 1980:vol 23, 39-141. 7. OSHA Standard Interpretation Letter of August 19, 1996. PROGRAM REVISED 10/97

#### PROVIDER COMMENTS:

Reference (1) requires International Labor Office UICC/Cincinnati (ILO U/C) rating of chest x-ray. This should be arranged through local Radiology Department.

Reference (7) provides interim guidance pending completion of rule making on this matter. It states that CSHOs encountering inspection situations where semi-annual chest x-rays and/or sputum cytology tests were not conducted in accordance with the requirements of the standard shall not issue citations for these elements provided:

All other elements of the required medical examinations were provided, and
 At least annual chest x-rays were being provided to affected workers in lieu of semiannual chest x-rays.

#### 112 ARSENIC ANY EXPOSURE

# (UNDER 45 YRS WITH LESS THAN 10 YRS EXPOSURE OVER THE ACTION LEVEL)

 STRESSOR(S) IN THIS PROGRAM:
 NIOSH #
 CAS #

 CALCIUM ARSENATE
 CG0830000
 7778-44-1

 ARSENIC ACID, LEAD (2+) SALT (2:3)
 CG0990000
 3687-31-8

 ARSENIC (INORGANIC & SOLUBLE COMPOUNDS)
 CG0525000
 7440-38-2

PROGRAM FREQUENCIES: ANNUAL

SPUTUM CYTOLOGY

OSHA STANDARD 29 CFR 1910.1018				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAI	D?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY (	CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY	(		ANNUAL	
HOSPITALIZATION OR SURGERY			ANNUAL	
CANCER			ANNUAL	
			ANNUAL	
BACK INJURY DO YOU DRINK 6 OR MORE DRINKS 1	PER WEEK		ANNUAL	
(BEER, WINE, LIQUOR)		-		-
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE		YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESS	SURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCR	IPTION OR OTC)		ANNUAL	YES
MEDICATION ALLERGIES	,	YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERN	NS	YES	ANNUAL	YES
ALLERGIES (ASTHMA, HAY FEVER, 1	ECZEMA)	YES	ANNUAL	YES
SKIN DISEASE		YES	ANNUAL	YES
LUNG/RESP DISEASE (EX:COPD, BRO	ONCHITIS, PNEUMONITIS)	YES	ANNUAL	YES
TREATMENT WITH STEROIDS OR CANO		YES	ANNUAL	YES
COUGHING UP BLOOD (HEMOPTYSIS)		YES	ANNUAL	YES
SHORTNESS OF BREATH		YES	ANNUAL	YES
COUGH (DRY OR PRODUCTIVE)			ANNUAL	
PROBLEMS WITH NUMBNESS, TINGLI	NG, WEAKNESS	YES	ANNUAL	YES
IN HANDS OR FEET				
WORK HISTORY OF:				
10 OR MORE YRS SINCE FIRST EXP	TO ARSENIC	YES	ANNUAL	YES
FAMILY HISTORY OF:				
CANCERS (LEUKEMIA, TUMORS)		YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	YES
LABORATORY-				
CYTOLOGY:				

YES NO YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
RADIOLOGY-		YES	ANNUAL	VEC
CHEST X-RAY (PA) COMMENTS ON LABORATORY RESUL	TS:	YES	ANNUAL	-
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMI	NATION TO:			
PERIPHERAL NERVOUS SYSTE	M (STRENGTH, SENSATION, DTR)	YES	ANNUAL	YES
CARDIOVASCULAR SYSTEM		YES	ANNUAL	YES
LIVER		YES	ANNUAL	YES
NASAL MUCOSA (SEPTAL PER	FORATION)	YES	ANNUAL	YES
RESPIRATORY SYSTEM		YES	ANNUAL	YES
SKIN (RASH, EROSION, ULC	ER, PIGMENT, ECZEMA, ETC)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINAT	'ION (SPECIFY)	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINA	TION:	YES	ANNUAL	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) KNOWN HUMAN C	ARCINOGEN	YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OPINIO	N REQUIRED	YES	ANNUAL	YES
	~			
•	ENT WITH EXPOSURES LISTED BELOW	YES	ANNUAL	YES
LISTED ON OPNAV 5100/15?		VIII C	7 NTNTTT 7 T	T/DC
ARE ANY ABNORMALITIES RELATE	ID TO EXPOSURES/OCCUPATIONS	YES	ANNUAL	YES
RECOMMENDATIONS:		YES	ANNUAL	YES

When a specified examination has not been provided within six months preceding termination of employment, an examination must be provided upon termination of employment. REFERENCE: (OTHER); 1. 29 CFR 1910.1018; 2. 29 CFR 1910.134, Respiratory Protection 3. NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards, U.S. Department of Health and Human Services, 1988; 4. Morgan DP. Recognition and Management of Pesticide Poisonings, Fourth Edition. United States Environmental Protection Agency. 1989:54-61; (1); 5. Klaassen CD, Amdur MO, Doull J. Cassarett and Doull's Toxicology, Third Edition. New York, NY: Macmillan Publishing Co. 1986:588-591; 6. International Agency For Research On Cancer. IARC Monographs On The Evaluation Of The Carcinogenic Risk Of Chemicals To Humans. Switzerland: World Health Organization. 1980:vol 23, 39-141. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

Reference (1) requires International Labor Office UICC/Cincinnati (ILO U/C) rating of chest x-ray. This can be arranged through the local Radiology Department.

#### 113 ASBESTOS CURRENT WORKER STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # CI6475000 1332-21-4 ASBESTOS CI6478500 12001-29-5 CHRYSOTILE CI6477000 12172-73-5 AMOSITE CA8430000 17068-78-9 ANTHOPHYLLITE CROCIDOLITE CI6479000 12001-28-4 PROGRAM FREQUENCY: ANNUAL OSHA STANDARD 1910.1001 and 1910.1026 EXAM ELEMENT ELEMENT GIVEN FOR: BASE PERI TERM LINE ODIC EXAM MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) YES ANNUAL YES MAJOR ILLNESS OR INJURY YES ANNUAL YES HOSPITALIZATION OR SURGERY YES ANNUAL YES CANCER YES ANNUAL YES YES ANNUAL YES BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PER WEEK YES ANNUAL YES (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED YES ANNUAL YES DO YOU CURRENTLY SMOKE (PACKS/DAY) YES ANNUAL YES HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE YES ANNUAL YES YES ANNUAL YES CURRENT MEDICATION USE (PRESCRIPTION OR OTC) YES ANNUAL YES MEDICATION ALLERGIES YES ANNUAL YES ANY REPRODUCTIVE HEALTH CONCERNS YES ANNUAL YES ANY FINDING RELATED TO ASBESTOS EXPOSURE? LABORATORY: RADIOLOGY CHEST X-RAY (ASBESTOS) USING NAVMED 6260/7 YES ANNUAL YES CIRCLE CORRECT FREQUENCY: AGE OF EMPLOYEE YEARS SINCE FIRST EXPOSURE 15 TO 35 35 TO 45 45+ 0 TO 10 5 YEARS 5 YEARS 5 YEARS 10+ 5 YEARS 2 YEARS 1 YEAR SPIROMETRY: SPIROMETRY (FVC, FEV1, FEV1/FVC) YES ANNUAL YES **OUALIFICATIONS:** RESPIRATORY PROTECTION YES ANNUAL YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
COMPLETE NAVMED 6260/5, REV (5/90), EVALUATION	, PERIODIC HEALTH	YES	ANNUAL	YES
COMPLETE DD 2493-1 INITIAL EXAM OR PERIODIC EXAM	DD 2493	YES	ANNUAL	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) KNOWN HUMAN CARCINO	GEN	YES	ANNUAL	YES
COUNSELING REGARDING THE COMBINEI SMOKING AND ASBESTOS EXPOSURE	O EFFECTS OF	YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OPINION REQUI	IRED	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH LISTED ON OPNAV 5100/15?	H EXPOSURES LISTED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO EXRECOMMENDATIONS:	KPOSURES/OCCUPATIONS	YES YES	ANNUAL ANNUAL	YES YES

Examination is required within 30 calendar days before or after termination of employment, if not examined within the last year. REFERENCES: (OTHER); 1. 29 CFR 1910.1001; 2. OPNAVINST 5100.23D, Chapter 17; 3. OPNAVINST 5100.19C, Chapter B1. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

The Physician's Written Opinion is required by OSHA standard. A sample is included in Appendix E. Amendment to the Standard (55FR 3724) requires that the employee be counseled regarding the increased risk of lung cancer attributable to the combined effects of smoking and asbestos exposure and that this be part of the Physician's Written Opinion.

If Hemoccult examinations are provided at your facility, Appendix F contains recommendations from the American Cancer Society for performing the  $Hemoccult\ II$ .

#### 115 ASBESTOS PAST WORKER 10+ YEARS SINCE FIRST EXP STRESSOR(S) IN THIS PROGRAM: NIOSH# CAS# CI6475000 1332-21-4 ASBESTOS CI6478500 12001-29-5 CHRYSOTILS CT6477000 12172-73-5 AMOSITE CA8430000 17068-78-9 ANTHOPHYLLITE CROCIDOLITE CI6479000 12001-28-4 PROGRAM FREQUENCY: AGE DEPENDENT ELEMENT GIVEN FOR: BASE PERI EXAM ELEMENT LINE ODIC MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) YES MAJOR ILLNESS OR INJURY YES \* \* \* HOSPITALIZATION OR SURGERY YES CANCER \*\*\* YES \*\*\* BACK INJURY YES \*\*\* DO YOU DRINK 6 OR MORE DRINKS PER WEEK YES (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED YES DO YOU CURRENTLY SMOKE (PACKS/DAY) YES HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE YES \*\*\* CURRENT MEDICATION USE (PRESCRIPTION OR OTC) YES \*\*\* MEDICATION ALLERGIES YES \*\*\* ANY REPRODUCTIVE HEALTH CONCERNS YES \*\*\* ANY FINDING RELATED TO ASBESTOS EXPOSURE YES LABORATORY: RADIOLOGY: CHEST X-RAY (ASBESTOS) USING NAVMED 6260/7 YES COMPLETE NAVMED 6260/5, Rev (5/90), PERIODIC HEALTH YES EVALUATION SPECIAL NOTATIONS: SUBSTANCE(S) KNOWN HUMAN CARCINOGEN YES \* \* \* COUNSELING REGARDING THE COMBINED EFFECTS OF YES \* \* \* SMOKING AND ASBESTOS EXPOSURE \*\*\* PHYSICIAN'S written OPINION NOT REQUIRED YES DD 2493-1 INITIAL EXAM OR DD 24993-2 PERIODIC \* \* \* EXAM NOT REQUIRED YES IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW YES \*\*\* \*\*\* ARE ANY ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS YES LISTED BELOW YES \*\*\* RECOMMENDATIONS:

### \*\*\*FREQUENCY OF EXAMINATION

AGE FREQUENCY

15 to 34	PENTA-ENNIAL
35 to 44	BI-ENNIAL
45+	ANNUAL

Military and civilian personnel who have a history of asbestos exposure during past federal employment or military service may be included in the Asbestos Medical Surveillance Program (AMSP), upon request, if any of the following criteria are met: 1. History of enrollment in the Navy AMSP; 2. A history of participation in any operation where visible airborne asbestos dust was present, including but not limited to rip-outs, for approximately 30 days or more in the past; 3. The occupational health provider, with occupational medicine physician consultation, concludes that the individual had exposure to asbestos that meets the current OSHA criteria for placement in the medical surveillance program, or its equivalent, for approximately 30 days or more in the past.

An employee who is in the AMSP based on a history of past exposure may be removed from the AMSP upon request. An entry in the medical record on the SF 600 should document the rationale for removing the individual from the AMSP. In addition, NAVENVIRHLTHCEN should be notified in writing of the name and SSN of the individual so that the data registry can be updated.

While not required, a termination evaluation may be recommended in certain cases, such as those with a history of heavy exposure or when there has been along interim since the last evaluation.

REFERENCES: (OTHER); 1. OPNAVINST 5100.23D, Chapter 17; 2. OPNAVINST 5100.19C, Chapter B1. 3. Occupational Medicine Field Operations Manual, current edition. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

Amendment to the Standard (55FR 3724) requires that the employee be counseled regarding the increased risk of lung cancer attributable to the combined effects of smoking and asbestos exposure.

If Hemoccult examinations are provided at your facility, Appendix F contains recommendations from the American Cancer Society for performing the Hemoccult II.

116	ASBESTOS PAST WORKER - 0 TO 10 YEARS SINCE FIRST EX	POSURE		
STRE	SSOR(S) IN THIS PROGRAM:			
ASBE	STOS CI64	75000	1332-2	1-4
CHRY	SOTILS CI64	78500	12001-	29-5
AMOS		77000		
		30000		
		79000		
CROC	IDOLLIE	17000	12001	20 T
PROG	RAM FREQUENCY: PENTA-ENNIAL			
EXAM	I ELEMENT GIVEN FOR:	BASE	PERI	TERM
		LINE	ODIC	EXAM
MEDICA	LL HISTORY: HAVE YOU EVER HAD?			
	SONAL HISTORY OF:			
IS	YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)	YES	PENTA-E	
	JOR ILLNESS OR INJURY		PENTA-E	
	OSPITALIZATION OR SURGERY		PENTA-E	
_	NCER		PENTA-E	
_	CK INJURY		PENTA-E	
DC	) YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	PENTA-E	
117	VE YOU EVER SMOKED	YES	PENTA-E	
	YOU CURRENTLY SMOKE (PACKS/DAY)		PENTA-E	
	ART DISEASE, HIGH BLOOD PRESSURE, OR STROKE		PENTA-E	
	RRENT MEDICATION USE (PRESCRIPTION OR OTC)		PENTA-E	
	DICATION ALLERGIES		PENTA-E	
	IY REPRODUCTIVE HEALTH CONCERNS		PENTA-E	
LU	NG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS)	YES	PENTA-E	
AN	Y FINDING RELATED TO ASBESTOS EXPOSURE?	YES	PENTA-E	
	TTE NAVMED 6260/5, REV (5/90), PERIODIC HEALTH	YES	PENTA-E	
	L NOTATIONS:	MEG	ם עווועיום	
	TANCE(S) KNOWN HUMAN CARCINOGEN		PENTA-E	
	ISELING REGARDING THE COMBINED EFFECTS OF IOKING AND ASBESTOS EXPOSURE	YES	PENTA-E	
	CICIAN'S WRITTEN OPINION NOT REOUIRED	YES	PENTA-E	
	1493-1 INITIAL EXAM OR DD 2493-2 PERIODIC	IEO	LUINIA-F	
	AM NOT REOUIRED	YES	PENTA-E	
E.A.	WALL NOT VEGOTKED	TEO	LUINIA-P	
	VEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW	YES	PENTA-E	
	ED ON OPNAV 5100/15?			
ARE AN	Y ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS	YES	PENTA-E	
LIST	'ED BELOW			
RECOMM	ENDATIONS:	YES	PENTA-E	

Military and civilian personnel who have a history of asbestos exposure during past federal employment or military service may be included in the Asbestos Medical Surveillance Program (AMSP), upon request, if any of the following criteria are met: 1. History of enrollment in the Navy AMSP; 2. A history of participation in any operation where visible airborne asbestos dust was present, including but not limited to rip-outs, for approximately 30 days or more in the past; 3. The occupational health provider, with occupational medicine physician consultation, concludes that the individual had exposure to asbestos that meets the current OSHA criteria for placement in the medical surveillance program, or its equivalent, for approximately 30 days or more in the past.

An employee who is in the AMSP based on a history of past exposure may be removed from the AMSP upon request. An entry in the medical record on the SF 600 should document the rationale fro removing the individual from the AMSP. In ADDITION, NAVENVIRHLTHCEN should be notified in writing of the name and SSN of the individual so that the data registry can be updated.

While not required, a termination evaluation may be recommended in certain cases, such as those with a history of heavy exposure or when there has been along interim since the last evaluation.

REFERENCES: (OTHER); 1. OPNAVINST 5100.23D, Chapter 17; 2. OPNAVINST 5100.19C, Chapter Bl. 3. Occupational Medicine Field Operations Manual, current edition. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

Amendment to the Standard (55FR 3724) requires that the employee be counseled regarding the increased risk of lung cancer attributable to the combined effects of smoking and asbestos exposure.

If Hemoccult examinations are provided at your facility, Appendix F contains recommendations from the American Cancer Society for performing the Hemoccult II.

### 117 BENZENE

STRESSOR(S) IN THIS PROGRAM:

BENZENE

NIOSH # CAS #
CY1400000 71-43-2

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1028

OSHA STANDARD 29 CFR 1910.1026				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HA	AD?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY		YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY		YES	ANNUAL	YES
CANCER		YES	ANNUAL	YES
BACK INJURY		YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS	PER WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS)		YES	_	
HEART DISEASE, HIGH BLOOD PRES			_	
CURRENT MEDICATION USE (PRESCH	RIPTION OR OTC)			
MEDICATION ALLERGIES		YES	_	
ANY REPRODUCTIVE HEALTH CONCER	RNS	YES		
BLOOD DISEASES (ANEMIA)		YES	ANNUAL	
ALLERGIES (ASTHMA, HAY FEVER,	ECZEMA)	YES	ANNUAL	YES
BLEEDING ABNORMALITIES		YES	ANNUAL	
TREATMENT WITH STEROIDS OR CAN	NCER (CYTOTOXIC) DRUGS	YES	ANNUAL	
LIVER DISEASE		YES	ANNUAL	YES
KIDNEY DISEASE		YES	_	
CURRENT PREGNANCY (SELF OR SPO	OUSE)	YES	ANNUAL	YES
WORK HISTORY OF:				
EXP TO BENZENE		YES	ANNUAL	YES
EXP TO CHEMOTHERAPEUTIC/ANTINE	EOPLASTIC AGENTS	YES	ANNUAL	YES
EXP TO IONIZING RADIATION		YES	ANNUAL	YES
EXP TO CARCINOGENS		YES	ANNUAL	YES
EXP TO SOLVENTS (MEK, PERC, TO	CE, TOLUENE)	YES	ANNUAL	YES
FAMILY HISTORY OF:				
BLOOD DISEASES (ANEMIA)		YES	ANNUAL	YES
GENETIC DISEASE (INCLUDE CHILI	DREN)	YES	ANNUAL	YES
CANCERS (LEUKEMIA, TUMORS)		YES		YES
COMMENTS ON MEDICAL HISTORY:		YES		YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
LABORATORY- HEMATOLOGY:				
COMPLETE BLOOD COUNT (HGB, HCT,			ANNUAL	YES
DIFFERENTIAL WHITE BLOOD CELL C	COUNT	YES	ANNUAL	
PLATELET COUNT		YES	ANNUAL	
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION	TO:			
CENTRAL NERVOUS SYSTEM		YES	ANNUAL	YES
PERIPHERAL NERVOUS SYSTEM		YES	ANNUAL	YES
ABDOMEN		YES	ANNUAL	YES
LIVER		YES	ANNUAL	
SKIN (RASH, EROSION, ULCER, PIG	·	YES	ANNUAL	
IMMUNOCOMPETENCE (LYMPHATIC SYS	,	YES	ANNUAL	
OTHER APPROPRIATE EXAMINATION (SP	PECIFY)	YES	ANNUAL	
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) KNOWN HUMAN CARCINOG		YES	ANNUAL	
PHYSICIAN'S WRITTEN OPINION REQUI	RED	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH	I EXPOSIBES LISTED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO EX		YES	ANNUAL	YES
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCE: (OTHER); 1. 29 CFR 1910.1028; 2. Goesline, BD, Biological and ambient monitoring of benzene in the workplace, Journal of Medicine, 1986, 28 (10):1051. PROGRAM REVISED 10/97.

### PROVIDER COMMENTS:

Guidance on emergency examinations, referrals, and mandatory removal are contained in 29 CFR 1910.1028. For all workers required to wear respirators for at least 30 days a year, cardiopulmonary examination and spirometry are required on initial examination and every three years.

# 118 BENZIDINE

STRESSOR(S) IN THIS PROGRAM:

BENZIDINE

NIOSH # CAS #
DC9625000 92-87-5

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1003

OSHA STANDARD 29 CFR 1910.1003				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HA	AD?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY		YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY		YES	ANNUAL	YES
CANCER		YES	ANNUAL	YES
BACK INJURY		YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS	PER WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PAG	CKS/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRES	SSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCR	RIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES		YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCER		YES	ANNUAL	YES
TREATMENT WITH STEROIDS OR CAN	NCER (CYTOTOXIC) DRUGS	YES	ANNUAL	YES
DECREASED IMMUNITY		YES	ANNUAL	YES
KIDNEY DISEASE		YES	ANNUAL	YES
PROBLEMS WITH URINATION/BLOOD	IN URINE	YES	ANNUAL	YES
CURRENT PREGNANCY (SELF OR SPO	OUSE)	YES	ANNUAL	YES
IMPOTENCE OR SEXUAL DYSFUNCTION	ON	YES	ANNUAL	YES
INFERTILITY OR MISCARRIAGE (SE	ELF OR SPOUSE)	YES	ANNUAL	YES
WORK HISTORY OF:				
EXP TO CHEMOTHERAPEUTIC/ANTINE	EOPLASTIC AGENTS	YES	ANNUAL	
EXP TO CARCINOGENS		YES	ANNUAL	YES
FAMILY HISTORY OF:				
GENETIC DISEASE (INCLUDE CHILI	OREN)	YES	ANNUAL	
CANCERS (LEUKEMIA, TUMORS)		YES	ANNUAL	
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	YES
LABORATORY-				
URINALYSIS:				
ROUTINE:				
URINALYSIS WITH MICROSCOPIC		YES	ANNUAL	YES
CYTOLOGY:				
URINE CYTOLOGY		YES	ANNUAL	
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINA	ATION TO:	YES	ANNUAL	YES
GENITOURINARY TRACT		YES	ANNUAL	YES
IMMUNOCOMPETENCE (LYMPHATIC SY	YSTEM)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION	ON (SPECIFY)	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINAT:	ION:	YES	ANNUAL	YES
SPECIAL NOTATIONS: SUBSTANCE(S) KNOWN HUMAN CARC: PHYSICIAN'S WRITTEN OPINION		YES YES	ANNUAL ANNUAL	YES YES
IS SURVEILLANCE/PPE CONSISTENT ( ARE ANY ABNORMALITIES RELATED TO LISTED BELOW		YES YES	ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCE: (1); (2); (OTHER); 29 CFR 1910.1003. Former standard 29 CFR 1910.1010. PROGRAM REVIEWED 10/97.

121 BERYLLIUM			
STRESSOR(S) IN THIS PROGRAM:	NIOSH #	CAS #	
BERYLLIUM	DS1750000	7440-41	1-7
BERYLLIUM ALUMINUM ALLOY	DS2200000	12770-	
BERYLLIUM CHLORIDE	DS2625000	7787-4	
BERYLLIUM FLUORIDE	DS2800000	7787-49	
BERYLLIUM HYDROXIDE	DS3150000		
BERYLLIUM OXIDE	DS4025000	1304-5	
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FO			TERM
	LINE	ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:	0 (15)		
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 510		ANNUAL	
MAJOR ILLNESS OR INJURY	YES	ANNUAL	
HOSPITALIZATION OR SURGERY	YES	ANNUAL	
CANCER	YES	ANNUAL	
BACK INJURY	YES	ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	
MEDICATION ALLERGIES	YES	ANNUAL	
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	ANNUAL	
SKIN DISEASE	YES	ANNUAL	
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONI		ANNUAL	
TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DR		ANNUAL	
COUGHING UP BLOOD (HEMOPTYSIS)	YES	ANNUAL	
SHORTNESS OF BREATH	YES	ANNUAL	YES
COUGH (DRY OR PRODUCTIVE)	YES	ANNUAL	YES
PNEUMONIA	YES	ANNUAL	YES
WORK HISTORY OF:			
EXP TO SKIN IRRITANTS	YES	ANNUAL	YES
FAMILY HISTORY OF:			
CANCERS (LEUKEMIA, TUMORS)	YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT (	GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
LABORATORY-						
RADIOLOGY:						
CHEST X-RAY (PA)				YES	ANNUAL	YES
SPIROMETRY-						
SPIROMETRY (FVC, FEV1, FEV1/FVC	)			YES	ANNUAL	YES
COMMENTS ON LABORATORY RESULTS:				YES	ANNUAL	YES
PHYSICAL EXAMINATION:						
VITAL SIGNS				YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION	N TO:					
RESPIRATORY SYSTEM				YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER,	PIGMENT,	ECZE	MA, ETC)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION	(SPECIFY)			YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:				YES	ANNUAL	YES
SPECIAL NOTATIONS:						
SUBSTANCE(S) SUSPECTED HUMAN CARC	INOGEN			YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH		S LIST	TED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO EX	POSURES/O	CCUPAT	TIONS	YES	ANNUAL	YES
LISTED BELOW	•					
RECOMMENDATIONS:				YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (4). PROGRAM REVISED 10/97.

### PROVIDER COMMENTS:

Beryllium-specific peripheral blood lymphocyte proliferation testing or other available preferred beryllium-specific tests may be considered appropriate by an occupational medicine physician. Anyone performing a beryllium-specific test should notify the Navy Environmental Health Center, Occupational Medicine Directorate.

# 178 BLOOD AND/OR BODY FLUIDS

PROGRAM FREQUENCY: BASELINE ONLY

OSHA STANDARD 29 CFR 1910.1030

EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE
MEDICAL HISTORY: HAVE YOU EVER HAD?	
PERSONAL HISTORY OF:	
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)	YES
MAJOR ILLNESS OR INJURY	YES
HOSPITALIZATION OR SURGERY	YES
CANCER	YES
BACK INJURY	YES
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES
(BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED	YES
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES
, , ,	YES
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES
MEDICATION ALLERGIES	YES
ANY REPRODUCTIVE HEALTH CONCERNS	YES
WORK HISTORY OF:	
EXP TO POTENTIALLY INFECTIOUS BODY FLUIDS	YES
COMMENTS ON MEDICAL HISTORY:	YES
DUNGTON DUNMING BLOW.	
PHYSICAL EXAMINATION: VITAL SIGNS	YES
OTHER APPROPRIATE EXAMINATION (SPECIFY)	YES
COMMENTS ON PHYSICAL EXAMINATION:	YES
COMPENIE ON FILIPICAL EXAMINATION.	150
OUALIFICATIONS:	
IS HEPATITIS B VACCINE SERIES COMPLETE OR	YES
PRIOR INFECTION DOCUMENTED?	
SPECIAL NOTATIONS:	
ASSESS THE EXAMINEE'S KNOWLEDGE OF UNIVERSAL BLOOD/	YES
BODY FLUID PRECAUTIONS	ZZEI CI
PHYSICIAN'S WRITTEN OPINION REQUIRED IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW	YES
ARE ANY ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS	YES
LISTED BELOW	TEO
RECOMMENDATIONS:	YES

This program does not have a periodic frequency. All tests are given for baseline physical exams and for any incident of exposure to potentially infectious materials. Exposure incident means a specific eye, mouth, other mucous membrane, non-intact skin or parenteral contact.

REFERENCES: (OTHER); 1. 29 CFR 1910.1030; 2. NIOSH Guidelines for prevention of transmission of human immunodeficiency virus and hepatitis B virus to health care and public safety workers, 1989, DHHS (NIOSH) Publication Number 89-107; 3. Lewy R. Organization and conduct of a hospital occupational health service, 1987, Occupational Medicine: State of the Art Reviews 2(3): 617-649. 4. MMWR Vol 38/S-6, Guidelines for prevention of transmission of human immunodeficiency virus and hepatitis B virus to health care and publicsafety workers US Dept of HHS, Public Health Service, CDC, June 23 1989. 5. MMWR Vol 39/No.RR-1, Public Health Service Statement on Management of Occupational Exposure to Human Immunodeficiency Virus, Including Considerations Regarding Zidovudine Postexposure Use, US Dept of HHS, Public Health Service CDC, January 26, 1990. 6. Update: Provisional Public Health Service Recommendations for Chemoprophylaxis after Occupational Exposure to HIV. MMWR, 7 Jun 96. 7. OASD Policy. Hepatitis B Immunization Policy for Department of Defense Medical and Dental Policy. 23 Oct 96. 8. Hepatitis C Information for Health Care Workers. In: Hepatitis Surveillance, Report No. Centers for Disease Control and Prevention. April 1996. PROGRAM REVISED 10/97.

### PROVIDER COMMENTS:

A sample physician's written opinion can be found in Appendix E. Individuals entered in this program are those who have the potential for exposure to blood and/or body fluids.

Current national guidelines regarding the postexposure management and reporting requirements for exposure incidents involving Hepatitis B or HIV are detailed in References 2 and 4. Guidelines regarding the use of zidovudine post HIV exposure are in Reference 5. Occupational Health staff managing exposure incidents involving HIV should have reference 5 and 2 or 4 on hand as well as current recommendations issued by NEHC, the nearest NEPMU or the Infectious Disease Department at Navy MTF's.

Category II exposure includes persons performing tasks that involve no exposure to blood or body fluids or tissues, but whose employment may require performing unplanned Category I tasks. This category may include firefighters, police officers, ambulance and correctional workers. Hepatitis B vaccine is not generally recommended for these workers (Reference 6). Employees occupationally exposed on an average of one or more times per month to blood or other potentially infectious materials are recommended candidates for HBV series (reference 1).

MMWR 7 Jun 96 details the chemoprophylaxis recommended to workers after occupational exposures associated with the highest risk for HIV transmission. Health care providers in the United States are encouraged to enroll workers who receive post-exposure prophylaxis (PEP) in the new HIV Postexposure Prophylaxix Registry, telephone (888) 737-4448 (888-737-4HIV). The data gathered will help shape future recommendations for managing occupational HIV exposures.

# 122 BORON TRIFLUORIDE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # BORON TRIFLUORIDE ED2275000 7637-07-2

BORON TREE BOOKEDE	DDZ275000	7037 0	, 2
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/	15) YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY	YES	ANNUAL	NO
CANCER	YES	ANNUAL	NO
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	NO
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
SKIN DISEASE	YES	ANNUAL	NO
LUNG OR RESP DISEASE (COPD, BRONCHITIS, PNEUMONITIS) WORK HISTORY OF:	YES	ANNUAL	NO
EXP TO SKIN IRRITANTS	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY-			
RADIOLOGY -	MEG	NO	NO
CHEST X-RAY (PA) SPIROMETRY:	YES	NO	NO
	YES	NO	NO
SPIROMETRY (FEV1, FVC, FEV1/FVC) COMMENTS ON LABORATORY RESULTS:	YES	NO	NO
COMMENTS ON LABORATORY RESULTS.	IES	NO	NO
PHYSICAL EXAMINATION:			
VITAL SIGNS	YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION TO:	1110	MINOAL	110
EYES	YES	ANNUAL	NO
MUCOUS MEMBRANES	YES	ANNUAL	NO
RESPIRATORY SYSTEM	YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PIGMENT, ECZEMA, ETC)	·-	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SPECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:	YES	ANNUAL	NO
	110	VI V O Z 1 L I	110

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE	PERI	TERM
		LINE	ODIC	EXAM
IS SURVEILLANCE/PPE CONSISTENT WITH	EXPOSURES LISTED BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO EX	POSURES/OCCUPATIONS	YES	ANNUAL	NO
LISTED BELOW				
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (1); (3); (5). PROGRAM REVISED 10/97

### 217 1,3-BUTADIENE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # 1,3-BUTADIENE E19150000 106-99-0

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1051

OSHA STANDARD 27 CFR 1710.1031				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HA	D?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY		YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY		YES	ANNUAL	YES
CANCER		YES		YES
BACK INJURY		YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS	PER WEEK	YES		YES
BACK INJURY DO YOU DRINK 6 OR MORE DRINKS (BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/		YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRES	SURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCR	IPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES		YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCER	NS	YES	ANNUAL	YES
BLOOD DISEASES (ANEMIA)		YES	ANNUAL	YES
ALLERGIES (ASTHMA, HAY FEVER,	ECZEMA)	YES	ANNUAL	YES
TREATMENT WITH STEROIDS OR CAN	CER (CYTOTOXIC) DRUGS	YES	ANNUAL	YES
LIVER DISEASE		YES	ANNUAL	YES
KIDNEY DISEASE		YES	ANNUAL	YES
CURRENT PREGNANCY (SELF OR SPO	USE)	YES		YES
DECREASED IMMUNITY		YES	ANNUAL	YES
INFERTILITY OR MISCARRIAGE (SE	LF OR SPOUSE)	YES	ANNUAL	YES
WORK HISTORY OF:				
EXP TO BENZENE		YES	ANNUAL	
EXP TO CHEMOTHERAPEUTIC/ANTINE	OPLASTIC AGENTS	YES	ANNUAL	
EXP TO IONIZING RADIATION		YES	_	
EXP TO CARCINOGENS		YES	ANNUAL	YES
EXP TO SOLVENTS (MEK, PERC, TC	E, TOLUENE)	YES	ANNUAL	YES
EAMILY HIGHORY OF				
FAMILY HISTORY OF:		MEG	7 NTNTTT 7 T	VEO
BLOOD DISEASES (ANEMIA) GENETIC DISEASE (INCLUDE CHILD	DEN \	YES YES	ANNUAL ANNUAL	
·	KEN )	YES	_	
CANCERS (LEUKEMIA, TUMORS) DECREASED IMMUNITY		YES	_	
COMMENTS ON MEDICAL HISTORY:		YES		-
COMMENTS ON MEDICAL HISTORY.		IEO	AMMUAL	IES

EXAM ELEMENT	ELEMENT	GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
LABORATORY: HEMATOLOGY:					
COMPLETE BLOOD COUNT	C (HGB, HCT, W	BC, MCV, MCH, MCHC)	YES	ANNUAL	YES
DIFFERENTIAL WHITE E	BLOOD CELL COUR	NT	YES	ANNUAL	YES
PLATELET COUNT			YES	ANNUAL	YES
COMMENTS ON LABORATORY F	RESULTS:		YES	ANNUAL	YES
PHYSICAL EXAMINATION:					
VITAL SIGNS			YES	TRI-ENN	YES
SPECIAL ATTENTION IN E	CXAMINATION TO	:			
ABDOMEN			YES	TRI-ENN	YES
LIVER			YES	TRI-ENN	
SPLEEN			YES	TRI-ENN	
SKIN (RASH, EROSION,	•		YES	TRI-ENN	
IMMUNOCOMPETENCE (LY		'	YES	TRI-ENN	
OTHER APPROPRIATE EXAM	MINATION (SPEC	IFY)	YES	TRI-ENN	YES
COMMENTS ON PHYSICAL EXA	MINATION:		YES	TRI-ENN	YES
SUBSTANCE(S) KNOWN HUN	MAN CARCINOGEN		YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OF	INION REQUIRE		YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONS	SISTENT WITH EX	XPOSURES LISTED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELISTED BELOW	CLATED TO EXPOS	SURES/OCCUPATIONS	YES	ANNUAL	YES
RECOMMENDATIONS:			YES	ANNUAL	YES

REFERENCE: (OTHER); 1. 29 CFR 1910.1051; PROGRAM DEVELOPED 2/98.

### PROVIDER COMMENTS:

The following are the criteria for placement in this program:

- 1. Employees with exposure to butadiene at concentrations at or above the action level on 30 or more days;
- 2. Employees who have or may have exposure to butadiene at or above the PELs on 10 or more days a year;
- 3. Medical surveillance shall be continued for employees even after transfer to a job without butadiene exposure, whose work histories suggest exposure to butadiene: (a) at or above the PELs on 30 or more days a year for 10 or more years; (b) at or above the action level on 60 or more days a year for 10 or more years; or (c) above 10 ppm on 30 or more days in any past year.

Medical surveillance shall be instituted for employees exposed to butadiene following an emergency situation (defined as any occurrence such as, but not limited to, equipment failure, rupture of containers, or failure of control equipment that may or does result in an uncontrolled significant release of butadiene). Guidance on emergency examinations and referrals is contained in 29 CFR 1910.1051.

See Appendix E for sample Physician's Written Opinion.

124 CADMIUM (CURRENT EXPOSURE)			
STRESSOR(S) IN THIS PROGRAM:	NIOSH #	CAS #	
CADMIUM (DUST AND SALTS)	EU9800000	7440-	43-9
	EV1925000	1306-3	19-0
CADMIUM SULFIDE	EV3150000	1306-	23-6
	EV2700000	10124	-36-4
	EV1750000	10325	-94-7
CADMIUM FLUOBORATE	EV0525000	14486	-19-2
CADMIUM CHLORIDE	EV0175000	10108	-64-2
CARBONIC ACID, CADMIUM SALT	FF9320000	513-78	8-0
PROGRAM FREQUENCY: ANNUAL			
OSHA STANDARD 29 CFR 1910.1027 and 29 CFR 1926.63			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE	PERI	TERM
	LINE	ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:			
IS YOU WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/1	5) ***	@@@	###
MAJOR ILLNESS OR INJURY	***	@@@	###
HOSPITALIZATION OR SURGERY	***	@@@	###
CANCER	* * *	@@@	###
BACK INJURY	* * *	@@@	###
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIOUOR)	***	@@@	###
HAVE YOU EVER SMOKED	***	@@@	###
DO YOU CURRENTLY SMOKE (PACKS/DAY)	***	@@@	###
HOW MANY YEARS HAVE OR DID YOU SMOKE?		000	
NONENUMBER OF YEARS			
GREATEST NUMBER OF PACKS PER DAY SMOKED.			
FORMER SMOKERS - TIME SINCE QUITTING: YEARS			
AVERAGE PACKS PER DAY SMOKED			
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	***	@@@	###
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	* * *	@@@	###
MEDICATION ALLERGIES	* * *	@@@	###
ANY REPRODUCTIVE HEALTH CONCERNS	***	@@@	###
BLOOD DISEASES (ANEMIA)	***	@@@	###
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITI	S) ***	@@@	###
TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRUG		@@@	###
CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS			
COUGHING UP BLOOD (HEMOPTYSIS)	***	@@@	###
SHORTNESS OF BREATH			
COUGH (DRY OR PRODUCTIVE)	***	@@@	###
LIVER DISEASE	***	@@@	###
KIDNEY DISEASE	* * *	@@@	###
KIDNEY STONES	***	@@@	###

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PROBLEMS WITH URINATION/BLO PROTEIN IN URINE CURRENT PREGNANCY (SELF OR IMPOTENCE OR SEXUAL DYSFUNC BONE PROBLEMS (BROKEN BONES	SPOUSE) CTION	* * * * * * * * * * * *	@@@ @@@ @@@	### ### ### ###
WORK HISTORY OF: EXPOSURE TO CADMIUM		***	@@@	###
FAMILY HISTORY OF: CANCERS (LEUKEMIA, TUMORS) COMMENTS ON MEDICAL HISTORY:		* * * * * *	@@@ @@@	### ###
LABORATORY: HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, SERUM CHEMISTRY:	HCT, WBC, MCV, MCH, MCHC)	***	@@@	###
BUN AND CREATININE CADMIUM IN BLOOD (CdB) URINALYSIS: ROUTINE:		* * * * * *	@@@ +++	### ###
URINALYSIS WITHOUT MICROS CADMIUM IN URINE (CdU) BETA-2-MICROGLOBULIN ( $\beta_2$ -M)		* * * * * *	@@@ +++ +++	### ### ###
RADIOLOGY- CHEST X-RAY (PA) SPIROMETRY-	()	***	!!!	###
SPIROMETRY (FVC, FEV1, FEV1 OTHER TESTS DEEMED APPROPRIAT COMMENTS ON LABORATORY RESULTS:	TE BY THE PHYSICIAN	* * * * * * * * *	@@@ @@@	### ### ###
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINAT	TION TO:	***	@@@	###
RESPIRATORY SYSTEM PROSTATE PALPATION OR OTHER DIAGNOSTIC TEST(S) FOR MA	R AT-LEAST-AS-EFFECTIVE	* * * * * *	@@@ @@@	### ###
OTHER APPROPRIATE EXAMINATION COMMENTS ON PHYSICAL EXAMINATION	N (SPECIFY)	* * * * * *	@@@ @@@	### ###
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN PHYSICIAN'S WRITTEN OPINION F		* * * * * *	@@@ @@@	### ###

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX LISTED BELOW		* * * * * *	@@@ @@@	### ###
RECOMMENDATIONS:		***	@@@	###

PROGRAM DESCRIPTION: REFERENCES: (OTHER); 1. 29 CFR 1910.1027; 2. 29 CFR 1926.63; 3. NAVENVIRHLTHCEN letter 6260 Ser 3213/6538 of 4 Jan 1993.

Currently exposed - all personnel who are or may be exposed to cadmium at or above the action level for 30 or more days per year.

Prior to assignment to a job requiring respirator use, a medical examination to determine fitness for respirator use shall be provided to any employee who does not have a medical examination within the preceding 12 months that satisfies the requirements outlined in 29 CFR 1910.1027. Place individuals on Program #716, Respirator User Certification Exam. PROGRAM REVISED 10/97.

29 CFR 1910.1027 describes the medical removal program.

#### PROVIDER COMMENTS:

The medical surveillance program consists of medical examinations and biological monitoring. The Physician's Written Opinion is required by the OSHA Standard. A sample is included in Appendix E.

\*\*\*Initial (preplacement) examinations shall be provided for all personnel who meet the criteria for inclusion in the cadmium medical surveillance program within 30 days after initial assignment to the job with cadmium exposure.

An initial examination is NOT required if records show that the employee has been examined in accordance with the standard within the past 12 months. In that case, the records shall be maintained as part of the employee's medical record, and the prior examination treated as if it were the initial examination.

+++Biological monitoring tests are provided either as part of a periodic medical examination or separately and are required to be performed at least annually.

@@@The frequency of periodic medical examinations is to be at least biannually after the initial exam and subsequent exam one year later. It also may be triggered by the results of biological monitoring. Guidance on actions triggered by biological monitoring are detailed in 29 CFR 1910.1027 or NAVENVIRHLTHCEN letter referenced above.

!!! The frequency of chest x-rays is determined by the examining physician.

\$##At\$ termination of employment, a medical examination shall be provided that includes the elements of the medical examination listed, including a chest x-ray. However, if the last examination was less than six months prior to the termination date and satisfied these requirements, further examination is not needed unless the results of biological monitoring require further testing.

206 CADMIUM (PAST EXPOSURE)			
STRESSOR(S) IN THIS PROGRAM: CADMIUM (DUST AND SALTS) CADMIUM OXIDE (FUME) CADMIUM OXIDE (PRODUCTION) CADMIUM SULFIDE CADMIUM SULFATE CADMIUM NITRATE CADMIUM FLUOBORATE CADMIUM CHLORIDE CADMIUM CARBONATE	NIOSH # EU9800000 EV1930000 EV1925000 EV3150000 EV2700000 EV1750000 EV0525000 EV01750000 FF9320000	7440 1306 1306 1306 10124- 10325- 14486- 10108-	19-0 19-0 23-6 -36-4 -94-7 -19-2 -64-2
PROGRAM FREQUENCY: SEE PROGRAM DESCRIPTION			
OSHA STANDARD 29 CFR 1910.1027 and 29 CFR 1926.63			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOU WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/1	15) ***	***	***
MAJOR ILLNESS OR INJURY	***	***	***
HOSPITALIZATION OR SURGERY		***	***
CANCER		***	
BACK INJURY		***	
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	* * *	***	***
(BEER, WINE, LIQUOR)		***	***
HAVE YOU EVER SMOKED		***	
DO YOU CURRENTLY SMOKE (PACKS/DAY) HOW MANY YEARS HAVE OR DID YOU SMOKE?	^ ^ ^	^ ^ ^	^ ^ ^
NONENUMBER OF YEARS			
GREATEST NUMBER OF PACKS PER DAY SMOKED			
FORMER SMOKERS - TIME SINCE QUITTING:YEARS	5		
AVERAGE PACKS PER DAY SMOKED			
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	***		***
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	* * *	***	***
MEDICATION ALLERGIES		***	
ANY REPRODUCTIVE HEALTH CONCERNS		***	
BLOOD DISEASES (ANEMIA)	***	***	* * *
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITI		***	***
TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRUG CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS	GS ***	***	***
COUGHING UP BLOOD (HEMOPTYSIS)	***	***	***
SHORTNESS OF BREATH	de de de	de de de	de de de
COUGH (DRY OR PRODUCTIVE)	* * *	***	***
LIVER DISEASE	***	***	* * * * * *
KIDNEY DISEASE	***	***	***
KIDNEY STONES PROBLEMS WITH URINATION/BLOOD IN URINE	***	***	***
PROTEIN IN URINE	***	***	***
THOTALIN THE CHARLE			

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
CURRENT PREGNANCY (SELF OR SPOU	JSE)	***	***	***
IMPOTENCE OR SEXUAL DYSFUNCTION	1	***	***	***
BONE PROBLEMS (BROKEN BONES) WORK HISTORY OF:		***	***	***
EXPOSURE TO CADMIUM FAMILY HISTORY OF:		***	***	***
CANCERS (LEUKEMIA, TUMORS)		***	***	***
COMMENTS ON MEDICAL HISTORY:		***	***	***
LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, SERUM CHEMISTRY: BUN AND CREATININE	WBC, MCV, MCH, MCHC)	***	***	***
CADMIUM IN BLOOD (CdB)		***	***	***
URINALYSIS: ROUTINE:				
URINALYSIS WITHOUT MICROSCOPI	I.C	***	* * *	* * *
CADMIUM IN URINE (CdU)		***		***
BETA-2-MICROGLOBULIN ( $eta_{\scriptscriptstyle 2}$ -M) IN RADIOLOGY-	URINE			***
CHEST X-RAY (PA) SPIROMETRY-		***	***	***
SPIROMETRY (FVC, FEV1, FEV1/FVC	•	***	***	***
OTHER TESTS DEEMED APPROPRIATE BY	THE PHYSICIAN	***	***	***
COMMENTS ON LABORATORY RESULTS:		***	***	***
PHYSICAL EXAMINATION:				
VITAL SIGNS		***	***	***
SPECIAL ATTENTION IN EXAMINATION	TO:			
RESPIRATORY SYSTEM		***	***	***
PROSTATE PALPATION OR OTHER AT- DIAGNOSTIC TEST(S) FOR MALES	OVER 40 YEARS OLD	***	***	***
OTHER APPROPRIATE EXAMINATION (SE	PECIFY)	***	***	***
COMMENTS ON PHYSICAL EXAMINATION:		***	***	***
SPECIAL NOTATIONS:	ATMOGRA	***	***	***
SUBSTANCE(S) SUSPECTED HUMAN CARC		***	***	***
PHYSICIAN'S WRITTEN OPINION REQUI	KED	^ ^ ^	* * *	^ ^ ^
IS SURVEILLANCE/PPE CONSISTENT WITH	I FYDOGIIPFG I.TGTFD BFTOW	***	***	***
ARE ANY ABNORMALITIES RELATED TO EX		***	***	***
LISTED BELOW RECOMMENDATIONS:	TOSORES/OCCUPATIONS	***	***	***
VECOMMENDATIONS.		** ** **		** ** **

REFERENCES: (OTHER); 1. 29 CFR 1910.1027; 2. 29 CFR 1926.63; 3. NAVENVIRHLTHCEN letter 6260 Ser 3213/6538 of 4 Jan 1993.

Previously exposed - includes all personnel who, during active duty or civilian employment in the Department of Defense, might previously have been exposed to cadmium at or above the action level:

- (1) Personnel whose worksite taskings meet the definition of construction work in 29 CFR 1926.63 with previous exposure to cadmium at or above the action level for an aggregate total of more than 12 months; or
- (2) Personnel whose worksite taskings meet the definition of general industry work in 29 CFR 1910.1027 with previous exposure to cadmium at or above the action level for an aggregate total of more than 60 months.

Reference (3) above, strongly recommends that personnel be considered as meeting the definition of construction work unless there is adequate documentation that the general industry (non-construction work) definition is met.

Currently exposed - all personnel who are or may be exposed to cadmium at or above the action level for 30 or more days per year. See Program #124. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS: \*\*\*

- 1. The Physician's Written Opinion is required by OSHA Standard. A sample is included in Appendix  ${\tt E.}$
- 2. Initial tests show CdU at or below 3  $\mu g/g$  Cr, CdB at or below 5  $\mu g/lwb$ , and  $\beta_a$ -M at or below 300  $\mu g/g$  Cr:
- A. Follow-up biological monitoring must be done within one year after the initial biological monitoring.
- B. If the follow-up tests confirm previous results, all periodic medical surveillance may be discontinued.
- 3. Initial tests show CdU exceeds 3  $\mu g/g$  Cr, CdB exceeds 5  $\mu g/lwb$ , or  $\beta_{_2}\text{-M}$  exceeds 300  $\mu g/g$  Cr:
- A. Full medical examination within 90 days. The elements of the medical examination are listed in the Medical Matrix.
- B. The frequency of chest x-rays is determined by the examining physician.

- C. If biological monitoring results done during the medical examination show that the CdU no longer exceeds 3  $\mu g/g$  Cr, CdB no longer exceed 5  $\mu g/lwb$  or  $\beta_2\text{-M}$  no longer exceeds 300  $\mu g/g$  Cr, biological monitoring will be repeated after one year. If repeat tests confirm the previous results, periodic medical surveillance may be discontinued.
- D. If any follow-up test shows that CdU exceed 3  $\mu g/g$  Cr, CdB exceeds 5  $\mu g/lwb$ , or  $\beta_{_2}\text{-M}$  exceeds 300  $\mu g/g$  Cr, annual medical examinations are required until:
- 1) the results of biological monitoring are consistently below these levels;  $\underline{\text{or}}$
- 2) the examining physician determines that further medical surveillance is not required to protect the employee's health.
- 4. Termination of employment examination is not required if previous biological monitoring results have returned to normal levels and periodic medical surveillance has been discontinued.

## 125 CARBON BLACK

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # CARBON BLACK FF5800000 1333-86-4

PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE	PERI	TERM
		ODIC	
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)	YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY	YES	ANNUAL	NO
CANCER	YES	ANNUAL	NO
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	NO
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)		ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	ANNUAL	NO
SKIN DISEASE		ANNUAL	NO
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS)	YES	ANNUAL	NO
SHORTNESS OF BREATH	YES	ANNUAL	NO
COUGH (DRY OR PRODUCTIVE)	YES	ANNUAL	NO
WORK HISTORY OF:			
EXP TO DUSTS (COAL, BLAST. GRIT, SAND, NUISANCE)	YES	ANNUAL	NO
EXP TO SKIN IRRITANTS	YES	ANNUAL	NO
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	NO
EXP TO CARCINOGENS	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY-			
RADIOLOGY-			
CHEST X-RAY (PA)	YES	NO	NO
SPIROMETRY-			
SPIROMETRY (FVC, FEV1, FEV1/FVC)	YES	NO	NO
COMMENTS ON LABORATORY RESULTS:	YES	NO	NO

EXAM ELEMENT	ELEMENT GI	VEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:		YES	ANNUAL	NO
MUCOUS MEMBRANES			YES	ANNUAL	NO
RESPIRATORY SYSTEM			YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PIG	MENT, ECZEM	A, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SP	ECIFY)		YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:			YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EXLISTED BELOW RECOMMENDATIONS:			YES YES	ANNUAL ANNUAL	NO NO

REFERENCES: (2); (3); (4); (OTHER); NIOSH Criteria For A Recommended Standard...Occupational Exposure to Carbon Black, DHEW (NIOSH) Publication No. 78-204, Sept 1978. PROGRAM REVISED 10/97.

### PROVIDER COMMENTS:

Carbon black itself is not considered carcinogenic. However, solvent extracts of carbon black may contain carcinogens.

#### 126 CARBON DISULFIDE

NIOSH # CAS # FF6650000 75-15-0 STRESSOR(S) IN THIS PROGRAM: CARBON DISULFIDE

PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT G	GIVEN FOR: BASE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?		. 0210	
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OF	PNAV 5100/15) YES	_	
MAJOR ILLNESS OR INJURY	YES	_	
HOSPITALIZATION OR SURGERY	YES	_	_
CANCER	YES		
BACK INJURY		ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES		
HAVE YOU EVER SMOKED	YES	_	
DO YOU CURRENTLY SMOKE (PACKS/DAY) HEART DISEASE, HIGH BLOOD PRESSURE, OR ST	YES	_	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR ST	TROKE YES	_	
CONTROL INDICATION OF A AND AND ON CO	710)	_	-
MEDICATION ALLERGIES	YES	_	
ANY REPRODUCTIVE HEALTH CONCERNS		ANNUAL	
USE OF NITRATE MEDICATION (NITROGLYCERINE	YES	_	
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WE		_	_
NAUSEA OR VOMITING	YES	_	
TREMORS	YES YES	_	
CHANGE OR LOSS OF VISION EYE IRRITATION	YES YES		
-	YES	_	
GLAUCOMA CHEST PAIN, ANGINA, HEART ATTACK, PALPITA	ATIONS YES	_	
INFERTILITY OR MISCARRIAGE (SELF OR SPOUS	SE) YES	_	
EPILEPSY (SEIZURE DISORDER)	YES	_	-
PROBLEMS WITH NUMBNESS, TINGLING, WEAKNES			
IN HANDS OR FEET			
MENTAL/EMOTIONAL ILLNESS	YES	_	NO
DEPRESSION, DIFF CONCENTRATING, EXCESSIVE		_	NO
PERSONALITY CHANGE	YES	ANNUAL	NO
FAMILY HISTORY OF:			
HEART DISEASE, HIGH BLOOD PRESSURE, OR ST	TROKE YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY- SERUM CHEMISTRY:			
BUN AND CREATININE	YES	ANNUAL	NO
CHOLESTEROL	YES	ANNUAL	NO
CHOTEDIFICH	155	MINIOUTI	INO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
CARDIOLOGY- ELECTROCARDIOGRAM RADIOLOGY-		YES	ANNUAL	NO
CHEST X-RAY (PA) OPTOMETRY-		YES	NO	NO
VISION SCREEN (VISUAL ACUITY) VISUAL FIELDS COMMENTS ON LABORATORY RESULTS:		YES YES	ANNUAL ANNUAL	NO NO
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:	YES	ANNUAL	NO
CENTRAL NERVOUS SYSTEM PERIPHERAL NERVOUS SYSTEM (STR CARDIOVASCULAR SYSTEM EYES		YES YES YES YES	ANNUAL ANNUAL ANNUAL	NO NO NO
COMMENTS ON PHYSICAL EXAMINATION:  IS SURVEILLANCE/PPE CONSISTENT WIT.	H EXPOSURES LISTED BELOW	YES YES	ANNUAL	NO NO
ARE ANY ABNORMALITIES RELATED TO E LISTED BELOW RECOMMENDATIONS:	XPOSURES/OCCUPATIONS	YES YES	ANNUAL	NO NO

REFERENCES: (1); (2); (3); (4); (5). PROGRAM REVIEWED 10/97

# 127 CARBON MONOXIDE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # CARBON MONOXIDE FG3500000 630-08-0

PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE	PERI	TERM
		ODIC	
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)	YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY	YES	ANNUAL	NO
CANCER	YES	ANNUAL	NO
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	ANNUAL	NO
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
BLOOD DISEASES (ANEMIA)	YES	ANNUAL	NO
USE OF NITRATE MEDICATION (NITROGLYCERINE)	YES	ANNUAL	NO
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS	YES	ANNUAL	NO
CHANGE OR LOSS OF VISION	YES	ANNUAL	NO
CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS	YES	ANNUAL	NO
SHORTNESS OF BREATH	YES	ANNUAL	NO
THYROID DISEASE (HEAT OR COLD INTOLERANCE)	YES	ANNUAL	NO
DEPRESSION, DIFFICULTY CONCENTRATING, EXCESSIVE			
ANXIETY	YES	ANNUAL	NO
FAMILY HISTORY OF:			
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY-			
HEMATOLOGY:			
COMPLETE BLOOD COUNT (HGB, HCT, WBC, MCV, MCH, MCHC)	YES	NO	NO
SERUM CHEMISTRY:			
CHOLESTEROL	YES	NO	NO
CARDIOLOGY-			
ELECTROCARDIOGRAM	YES	NO	NO
COMMENTS ON LABORATORY RESULTS:	YES	NO	NO

EXAM ELEMENT	ELEMENT GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:					
VITAL SIGNS			YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SP	ECIFY)		YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:			YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH	EXPOSURES LIST	TED BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO EXLISTED BELOW	POSURES/OCCUPAT	TIONS	YES	ANNUAL	NO
RECOMMENDATIONS:			YES	ANNUAL	NO

REFERENCES: (1); (2); (3); (4). PROGRAM REVISED 10/97.

## 128 CARBON TETRACHLORIDE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # CARBON TETRACHLORIDE FG4900000 56-23-5

PROGRAM FREQUENCY: ANNUAL				
EXAM ELEMENT	ELEMENT GIVEN FOR:			TERM
		LINE	ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD	)?			
PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY O	TIDDENT (ODNAI E100/1E)	YES	ANNUAL	VEC
MAJOR ILLNESS OR INJURY	CORRENT (OPNAV SIOO/IS)		ANNUAL	
HOSPITALIZATION OR SURGERY			ANNUAL	
CANCER			ANNUAL	
DACK INTUDY		ZZTP C	ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS I	PER WEEK	YES	ANNUAL	
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/I			ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESS	SURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCRI	IPTION OR OTC)		ANNUAL	
MEDICATION ALLERGIES			ANNUAL	
ANY REPRODUCTIVE HEALTH CONCERN			ANNUAL	
ALLERGIES (ASTHMA, HAY FEVER, E	ECZEMA)		ANNUAL	
SKIN DISEASE			ANNUAL	
HEPATITIS OR JAUNDICE	NED (GUEROEGUEG) DRUGG		ANNUAL	
TREATMENT WITH STEROIDS OR CANC	CER (CYTOTOXIC) DRUGS		ANNUAL	
USE OF BARBITURATES HEADACHE, DIZZINESS, LIGHT-HEAI	DEDNIEGO MENUNEGO		ANNUAL ANNUAL	
NAUSEA OR VOMITING	DEDINESS, WEAKINESS		ANNUAL	
EYE IRRITATION			ANNUAL	
LIVER DISEASE			ANNUAL	
KIDNEY DISEASE			ANNUAL	
RIDNII DIGINGI		120	1111101111	120
WORK HISTORY OF:				
EXP TO SKIN IRRITANTS			ANNUAL	YES
EXP TO SOLVENTS (MEK, PERC, TCE	E, TOLUENE)	YES	ANNUAL	YES
FAMILY HISTORY OF:				
CANCERS (LEUKEMIA, TUMORS)		YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	YES
LABORATORY- HEMATOLOGY:				
COMPLETE BLOOD COUNT (HGB, HCT,	WBC, MCV, MCH, MCHC)	YES	ANNUAL	YES
DIFFERENTIAL WHITE BLOOD CELL (			ANNUAL	

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI., ALK. PI	HOS.	YES	NO ANNUAL	YES
URINALYSIS: ROUTINE:		IES	ANNUAL	IES
URINALYSIS WITH MICROSCOPIC COMMENTS ON LABORATORY RESULTS:			ANNUAL ANNUAL	
PHYSICAL EXAMINATION: VITAL SIGNS		VE C	ANNUAL	VE C
SPECIAL ATTENTION IN EXAMINATION	TO:	IES	AMMUAL	IES
CENTRAL NERVOUS SYSTEM		YES	ANNUAL	YES
PERIPHERAL NERVOUS SYSTEM (STR	ENGTH, SENSATION, DTR)	YES	ANNUAL	YES
EYES		YES	ANNUAL	YES
LIVER		YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER, PI	GMENT, ECZEMA, ETC)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (S.	PECIFY)	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) SUSPECTED HUMAN CAR	CINOGEN	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EL LISTED BELOW			ANNUAL ANNUAL	
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (4). PROGRAM REVISED 10/97.

# 130 CHLOROFORM

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # CHLOROFORM FS9100000 67-66-3

PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:		PERI ODIC	
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:	MEG	7 NTNTTT 7 T	NT C
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)		ANNUAL	
MAJOR ILLNESS OR INJURY HOSPITALIZATION OR SURGERY		ANNUAL ANNUAL	
CANCER		ANNUAL	
BACK INJURY		ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED	VEC.	7 NTNTTT 7 T	VEC
DO YOU CURRENTLY SMOKE (PACKS/DAY)		ANNUAL ANNUAL	
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE		ANNUAL	
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	
MEDICATION ALLERGIES		ANNUAL	
ANY REPRODUCTIVE HEALTH CONCERNS		ANNUAL	
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)		ANNUAL	
SKIN DISEASE		ANNUAL	
HEPATITIS OR JAUNDICE		ANNUAL	
TREATMENT WITH STEROIDS OR CYTOTOXIC (DRUGS)		ANNUAL	
USE OF BARBITURATES		ANNUAL	
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS	YES	ANNUAL	
NAUSEA OR VOMITING	YES	ANNUAL	
LIVER DISEASE	YES	ANNUAL	
KIDNEY DISEASE	YES	ANNUAL	YES
PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS IN HANDS OR FEET	YES	ANNUAL	YES
MIGRAINE HEADACHE	YES	ANNUAL	YES
WORK HISTORY OF:			
EXP TO SKIN IRRITANTS		ANNUAL	
EXP TO SOLVENTS (MEK, PERC, TCE, TOLUENE)	YES	ANNUAL	YES
FAMILY HISTORY OF:			
CANCERS (LEUKEMIA, TUMORS)	YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
LABORATORY-			0210	
HEMATOLOGY:				
COMPLETE BLOOD COUNT (HGB, HCT			ANNUAL	
DIFFERENTIAL WHITE BLOOD CELL (	COUNT	YES	ANNUAL	YES
SERUM CHEMISTRY:				
LIVER PROFILE TO INCLUDE:				
SGOT (AST), TOT. BILI., ALK.	PHOS.		ANNUAL	
BUN AND CREATININE		YES	ANNUAL	YES
URINALYSIS: ROUTINE:				
URINALYSIS WITH MICROSCOPIC		YES	ANNUAL	VFC
CARDIOLOGY-		110	ANNOAL	150
ELECTROCARDIOGRAM		YES	NO	YES
RADIOLOGY-		110	110	1110
CHEST X-RAY (PA)		YES	NO	YES
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION	TO:			
CENTRAL NERVOUS SYSTEM			ANNUAL	
CARDIOVASCULAR SYSTEM			_	YES
ABDOMEN			ANNUAL	
LIVER			ANNUAL	
OTHER APPROPRIATE EXAMINATION (SI	SECTEA)		ANNUAL	
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) SUSPECTED HUMAN CARC	TNOCEN	YES	ANNUAL	VFC
DODDIANCE(D) DODIECTED HOMAN CARC	SINGGEN	180	ANNOAL	1110
IS SURVEILLANCE/PPE CONSISTENT WITH	+ EXPOSITES LISTED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO EX			ANNUAL	
LISTED BELOW	,			-
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (2); (3). PROGRAM REVISED 10/97.

## 131 BIS-CHLOROMETHYL ETHER

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # BIS-CHLOROMETHYL ETHER KN1575000 542-88-1

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1003

OSHA STANDARD ZJ CFR 1710.1005				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		
MEDICAL HISTORY: HAVE YOU EVER H	IAD?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY		YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY		YES	ANNUAL	YES
CANCER		YES	ANNUAL	YES
BACK INJURY		YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS	S PER WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS	S/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRE			ANNUAL	YES
CURRENT MEDICATION USE (PRESC	CRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES		YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCE		YES	ANNUAL	YES
LUNG/RESP DISEASE (EX:COPD, E	BRONCHITIS, PNEUMONITIS)	YES	ANNUAL	YES
TREATMENT WITH STEROIDS OR CA	ANCER (CYTOTOXIC) DRUGS	YES	_	YES
COUGHING UP BLOOD (HEMOPTYSIS	5)	YES	ANNUAL	YES
COUGH (DRY OR PRODUCTIVE)		YES	ANNUAL	YES
CURRENT PREGNANCY (SELF OR SE	POUSE)	YES	ANNUAL	YES
IMPOTENCE OR SEXUAL DYSFUNCTI		YES	ANNUAL	YES
INFERTILITY OR MISCARRIAGE (S	SELF OR SPOUSE)	YES	ANNUAL	YES
FAMILY HISTORY OF:				
GENETIC DISEASE (INCL CHILDRE	TNT \	YES	ANNUAL	VE C
CANCERS (LEUKEMIA, TUMORS)	PIN )	YES		
COMMENTS ON MEDICAL HISTORY:		YES	_	YES
COMMENTS ON MEDICAL HISTORY.		IFS	AMNUAL	IFS
LABORATORY-				
RADIOLOGY-				
CHEST X-RAY (PA)		YES	ANNUAL	YES
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM OVAL
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION	N TO:			
RESPIRATORY SYSTEM		YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER, P	IGMENT, ECZEMA, ETC)	YES	ANNUAL	YES
IMMUNOCOMPETENCE (LYMPHATIC S	YSTEM)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (	SPECIFY):	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) KNOWN HUMAN CARCIN	OGEN	YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OPINION REQ	UIRED	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WI	TH EXPOSURES LISTED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO LISTED BELOW	EXPOSURES/OCCUPATIONS	YES	ANNUAL	YES
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCE: (OTHER) 29 CFR 1910.1003. Former standard 29 CFR 1910.1008. PROGRAM REVISED 10/97.

# 132 BETA-CHLOROPRENE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # BETA-CHLOROPRENE E19625000 126-99-8

PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:		PERI ODIC	
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:	LINE	ODIC	EZZZAN
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY		ANNUAL	YES
HOSPITALIZATION OR SURGERY	YES		YES
CANCER	YES	ANNUAL	YES
BACK INJURY		ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES		
(BEER, WINE, LIOUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES	YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	YES
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	ANNUAL	YES
SKIN DISEASE	YES	ANNUAL	YES
HEPATITIS OR JAUNDICE	YES	ANNUAL	YES
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS)	YES	ANNUAL	YES
EYE IRRITATION	YES	ANNUAL	YES
LIVER DISEASE	YES	ANNUAL	YES
KIDNEY DISEASE	YES	ANNUAL	YES
CURRENT PREGNANCY (SELF OR SPOUSE)	YES	ANNUAL	YES
INFERTILITY OR MISCARRIAGE (SELF OR SPOUSE)	YES	ANNUAL	YES
PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS IN HANDS OR FEET	YES	ANNUAL	YES
MIGRAINE HEADACHE	YES	ANNUAL	YES
DEPRESSION, DIFF CONCENTRATING, EXCESSIVE ANXIETY	YES	ANNUAL	YES
WORK HISTORY OF:			
EXP TO SKIN IRRITANTS	-	ANNUAL	
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	YES
LABORATORY- HEMATOLOGY:			
COMPLETE BLOOD COUNT (HGB, HCT, WBC, MCV, MCH, MCHC)	YES	ANNUAL	YES
DIFFERENTIAL WHITE BLOOD CELL COUNT	YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN	FOR:		PERI ODIC	TERM EXAM
SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI., ALK. PH BUN AND CREATININE SGOT (AST) URINALYSIS: ROUTINE:	HOS.		YES	NO ANNUAL ANNUAL	YES
URINALYSIS WITH MICROSCOPIC CARDIOLOGY:			YES	ANNUAL	YES
ELECTROCARDIOGRAM RADIOLOGY:			YES	NO	YES
CHEST X-RAY (PA) COMMENTS ON LABORATORY RESULTS:			YES YES	NO ANNUAL	YES YES
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION TO CENTRAL NERVOUS SYSTEM CARDIOVASCULAR SYSTEM LIVER RESPIRATORY SYSTEM	0:		YES YES YES	ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL	YES YES YES
SKIN (RASH, EROSION, ULCER, PIGME OTHER APPROPRIATE EXAMINATION (SPEC COMMENTS ON PHYSICAL EXAMINATION:		ETC)	YES	ANNUAL ANNUAL ANNUAL	YES
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CARCIN SUBSTANCE(S) SUSPECTED HUMAN MUTAGE		C EFF.		ANNUAL ANNUAL	YES YES
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EXPO				ANNUAL ANNUAL	
LISTED BELOW RECOMMENDATIONS:			YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (4). PROGRAM REVISED 10/97.

#### 133 CHROMIC ACID/CHROMIUM (VI) STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # GB2450000 7738-94-CHROMIC ACID CHROMIC ACID, ZINC SALT GB3290000 13530-65-9 DICHROMIC ACID, DISODIUM SALT HX7700000 10588-01-9 GB4200000 7440-47-3 CHROMIUM (VI) WATER SOLUBLE CHROMIUM (VI) WATER INSOLUBLE GB4200000 7440-47-3 CHROMIC ACID, LEAT (+2) SALT (1:1) GB2975000 7758-97-6 CHROMIC ACID, DI-T-BUTYLESTER GB2900000 1189-85-1 CHROMIC ACID, DISODIUM SALT GB2955000 7775-11-3 CHROMIC ACID, DISPOTASSIUM SALT GB2940000 7789-00-6 CHROMIUM PHOSPHATE GB6840000 7789-04-CHROMIUM CARBONYL GB5075000 13007-92-6 CHROMIC ACID, ZINC HYDROXIDE HYDRATE (1:2, 2:1) GB3260000 15930-94-6 CHROMIUM (VI) OXIDE (1:3) GB6650000 1333-82-0 CHROMIC ACID, STRONTIUM SALT (1:1) CHROMIC ACID, CALCIUM SALT (1:1) GB3240000 7789-06-2 GB2750000 13765-19-0 BARIUM CHROMATE (VI) CO8760000 10294-40-3 CHROMATE (1-) HYDROXYOCTAOXODIZINICATED, POTASSIUM GA9170000 1103-86-9 GB3300000 37300-23-5 C.I. PIGMENT YELLOW GB2850000 24613-89-6 CHROMIUM CHROMATE PROGRAM FREQUENCY: ANNUAL ELEMENT GIVEN FOR: BASE PERI EXAM ELEMENT TERM LINE ODIC EXAM MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) YES ANNUAL YES MAJOR ILLNESS OR INJURY YES ANNUAL YES YES ANNUAL YES HOSPITALIZATION OR SURGERY YES ANNUAL YES CANCER YES ANNUAL YES BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PER WEEK YES ANNUAL YES (BEER, WINE, LIQUOR) YES ANNUAL YES YES ANNUAL YES YES ANNUAL YES YES ANNUAL YES HAVE YOU EVER SMOKED DO YOU CURRENTLY SMOKE (PACKS/DAY) HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC) MEDICATION ALLERGIES YES ANNUAL YES YES ANNUAL YES ANY REPRODUCTIVE HEALTH CONCERNS YES ANNUAL YES ALLERGIES (ASTHMA, HAY FEVER, ECZEMA) YES ANNUAL YES SKIN DISEASE LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS) YES ANNUAL YES TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRUGS YES ANNUAL YES YES ANNUAL YES PERFORATION OF NASAL SEPTUM YES ANNUAL YES COUGHING UP BLOOD (HEMOPTYSIS) YES ANNUAL YES SHORTNESS OF BREATH COUGH (DRY OR PRODUCTIVE) YES ANNUAL YES KIDNEY DISEASE YES ANNUAL YES

EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
WORK HISTORY OF:  EXP TO DUSTS (COAL, BLAST. GRITER EXP TO CHROMIUM OR CHROMIC ACIDEXP TO SKIN IRRITANTS  EXP TO CARCINOGENS  FAMILY HISTORY OF:	, SAND, NUISANCE)	YES YES	ANNUAL ANNUAL ANNUAL ANNUAL	YES YES
CANCERS (LEUKEMIA, TUMORS) COMMENTS ON MEDICAL HISTORY:			ANNUAL ANNUAL	
LABORATORY:				
HEMATOLOGY:  COMPLETE BLOOD COUNT (HGB, HCT, DIFFERENTIAL WHITE BLOOD CELL CO SERUM CHEMISTRY:			ANNUAL ANNUAL	
LIVER PROFILE TO INCLUDE:  SGOT (AST), TOT. BILI., ALK. I BUN AND CREATININE SGOT (AST) URINALYSIS:	PHOS.	YES	NO ANNUAL ANNUAL	YES
ROUTINE: URINALYSIS WITH MICROSCOPIC RADIOLOGY:		YES	ANNUAL	YES
CHEST X-RAY (PA) SPIROMETRY:		YES	NO	YES
SPIROMETRY (FVC, FEV1, FEV1/FVC COMMENTS ON LABORATORY RESULTS:	)		ANNUAL ANNUAL	
PHYSICAL EXAMINATION:				
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION :	ro:	YES	ANNUAL	YES
MUCOUS MEMBRANES NASAL MUCOSA (SEPTAL PERFORATION RESPIRATORY SYSTEM SKIN (RASH, EROSION, ULCER, PIGN	•	YES YES	ANNUAL	YES YES YES YES
OTHER APPROPRIATE EXAMINATION (SPECOMMENTS ON PHYSICAL EXAMINATION:			ANNUAL ANNUAL	YES YES
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CARCI IS SURVEILLANCE/PPE CONSISTENT WITH			ANNUAL ANNUAL	YES YES
ARE ANY ABNORMALITIES RELATED TO EXILISTED BELOW			ANNUAL	
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (4). PROGRAM REVISED 10/97.

### PROVIDER COMMENTS:

Beginning at the tenth year of exposure the chest x-ray may be indicated annually depending on the individual's work exposure, smoking status and work habits.

134 COAL TAR PITCH VOL./POLYCYCLIC AROMATIC HYDROCARB.

STRESSOR(S) IN THIS PROGRAM:
COAL TARS (COAL TAR)
COAL TAR EXTRACTS AND HIGH TEMPERATURE TARS
COAL TAR PITCH VOLATILES

PROGRAM FREQUENCY: ANNUAL
OSHA STANDARD 29 CFR 1910.1002, 1910.1029

EXAM ELEMENT

ELEMENT GIVEN FOR:
BASE PERI TERM

EXAM FLEMENT			
ELEMENT GIVEN FOR:	BASE	PERI	TERM
	LINE	ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)		ANNUAL	
MAJOR ILLNESS OR INJURY	YES	ANNUAL	
HOSPITALIZATION OR SURGERY	YES	ANNUAL	
CANCER	YES	ANNUAL	YES
BACK INJURY	YES	_	
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES	YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	ANNUAL	YES
SKIN DISEASE	YES	ANNUAL	YES
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS)		ANNUAL	YES
TREATMENT WITH STEROIDS OR CANCER(CYTOTOXIC) DRUGS	YES	ANNUAL	
COUGHING UP BLOOD (HEMOPTYSIS)	YES	ANNUAL	
SHORTNESS OF BREATH	YES	ANNUAL	YES
COUGH (DRY OR PRODUCTIVE)	YES	ANNUAL	YES
PNEUMONIA	YES	ANNUAL	YES
PROBLEMS WITH URINATION/BLOOD IN URINE	YES	ANNUAL	YES
WORK HISTORY OF:			
EXP TO SKIN IRRITANTS	YES	ANNUAL	YES
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	YES
EXP TO CARCINOGENS	YES	ANNUAL	YES
FAMILY HISTORY OF:			
CANCERS (LEUKEMIA, TUMORS)	YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	YES

LABORATORY-

URINALYSIS:

ROUTINE

URINALYSIS WITH MICROSCOPIC YES ANNUAL YES

EXAM ELEMENT	ELEMENT (	GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
RADIOLOGY:					0220	
CHEST X-RAY (PA)				YES	ANNUAL	YES
COMMENTS ON LABORATORY RESULTS:				YES	ANNUAL	YES
PHYSICAL EXAMINATION:						
VITAL SIGNS				YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION	OTO:					
MUCOUS MEMBRANES				YES	ANNUAL	YES
RESPIRATORY SYSTEM				YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER, PI	IGMENT, ECZ	EMA, 1	ETC.)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (S	SPECIFY)			YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:				YES	ANNUAL	YES
SPECIAL NOTATIONS:						
SUBSTANCE(S) KNOWN HUMAN CARCING	OGEN			YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OPINION REQUIR	RED			YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WIT		S LIST	TED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO E	EXPOSURES/O	CCUPA:	TIONS	YES	ANNUAL	YES
LISTED BELOW RECOMMENDATIONS:				YES	ANNUAL	YES
					111101111	

REFERENCES: (1); (2); (3); (OTHER); 1. 29 CFR 1910.1002; 2. 29 CFR 1910.1029; 3. Polycyclic Aromatic Hydrocarbons, Fifth Annual Report on Carcinogens, Summary 1989, U.S. Department of Health and Human Services Public Health Service, Rockville, MD, Technical Resources, Inc. 1989:242-246. 4. Journal of Occupational Medicine 1990 (32): Entire Issue. PROGRAM REVISED 10/97.

NOTE: 29 CFR 1910.1029 applies to workers exposed to coke oven emissions and has specific requirements which must be followed in addition to those listed above. These include sputum and urine cytology and spirometry. To the extent that a worker's exposure to PAH's resembles that of coke oven emissions, these additional elements must be considered. While sputum cytology is not of proven benefit, urine cytology has been shown in certain high risk groups to identify asymptomatic cancers. Reference (4) provides more elaborate discussion of the issues.

208 COBALT			
COBALT (II) OXICE	NIOSH # GF8750000 GG2800000 GG3325000 GG9800000	1307-96	5-6
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:  MEDICAL HISTORY: HAVE YOU EVER HAD?	BASE LINE	PERI ODIC	
PERSONAL HISTORY OF:  IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/MAJOR ILLNESS OR INJURY HOSPITALIZATION OR SURGERY CANCER BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED DO YOU CURRENTLY SMOKE (PACKS/DAY) HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC) MEDICATION ALLERGIES ANY REPRODUCTIVE HEALTH CONCERNS ALLERGIES (ASTHMA, HAY FEVER, ECZEMA) SKIN DISEASE LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITI SHORTNESS OF BREATH COUGH (DRY OR PRODUCTIVE) WORK HISTORY OF: EXPOSURE TO SKIN IRRITANTS COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO N
LABORATORY- RADIOLOGY CHEST X-RAY (PA)	YES	PENTA-E	NO
SPIROMETRY SPIROMETRY (FVC, FEV1, FEV1/FVC) COMMENTS ON LABORATORY RESULTS:	YES YES	ANNUAL	NO
PHYSICAL EXAMINATION: VITAL SIGNS	YES	ANNUAL	NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
SPECIAL ATTENTION IN EXAMINATION CARDIOVASCULAR SYSTEM RESPIRATORY SYSTEM SKIN (RASH, EROSION, ULCER, PIC OTHER APPROPRIATE EXAMINATION (SE COMMENTS ON PHYSICAL EXAMINATION	GMENT, ECZEMA, ETC.)	YES YES YES YES YES	ANNUAL ANNUAL ANNUAL ANNUAL	NO NO NO NO
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX LISTED BELOW RECOMMENDATIONS:		YES YES YES	ANNUAL ANNUAL	NO NO

REFERENCES: (1); (2). PROGRAM REVISED 10/97.

#### 135 CRESOL STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # GO5950000 1319-77-3 CRESOL (O, M, P-MIXTURE) M-CRESOL GO6125000 108-39-4 O-CRESOL GO6300000 95-48-7 GO6475000 106-44-5 P-CRESOL 2.6-DITERT-BUTYL-P-CRESOL GO7875000 128-37-0 4,4'-THIOBIS(6-TERT-BUTYL-M-CRESOL) GP3150000 96-69-5 PROGRAM FREQUENCY: ANNUAL ELEMENT GIVEN FOR: BASE PERI EXAM ELEMENT TERM LINE ODIC EXAM MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) YES ANNUAL MAJOR ILLNESS OR INJURY YES ANNUAL NO HOSPITALIZATION OR SURGERY YES ANNUAL NO YES ANNUAL NO CANCER YES ANNUAL NO BACK INJURY YES ANNUAL NO DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED YES ANNUAL NO DO YOU CURRENTLY SMOKE (PACKS/DAY) YES ANNUAL NO YES ANNUAL HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE NΟ CURRENT MEDICATION USE (PRESCRIPTION OR OTC) YES ANNUAL NΟ YES ANNUAL MEDICATION ALLERGIES NΟ YES ANNUAL ANY REPRODUCTIVE HEALTH CONCERNS NΟ YES ANNUAL ALLERGIES (ASTHMA, HAY FEVER, ECZEMA) NΟ YES ANNUAL NO SKIN DISEASE YES ANNUAL NO HEPATITIS OR JAUNDICE LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS) HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS YES ANNUAL NO NAUSEA OR VOMITING YES ANNUAL NO CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS YES ANNUAL NO YES ANNUAL NO COUGHING UP BLOOD (HEMOPTYSIS) SHORTNESS OF BREATH YES ANNUAL NO COUGH (DRY OR PRODUCTIVE) YES ANNUAL NO LIVER DISEASE YES ANNUAL NO KIDNEY DISEASE YES ANNUAL NO YES ANNUAL PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS NO IN HANDS OR FEET WORK HISTORY OF: EXP TO SKIN IRRITANTS YES ANNUAL NO EXP TO RESPIRATORY IRRITANTS YES ANNUAL NO YES ANNUAL NO COMMENTS ON MEDICAL HISTORY:

EXAM ELEMENT	ELEMENT GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
LABORATORY-					
SERUM CHEMISTRY:					
LIVER PROFILE TO INCLUDE:					
SGOT (AST), TOT. BILI., ALK. BUN AND CREATININE	PHOS.			NO ANNUAL	
SGOT (AST)				ANNUAL	_
URINALYSIS:			1110	AMMOAL	110
ROUTINE:					
URINALYSIS WITH MICROSCOPIC			YES	ANNUAL	NO
RADIOLOGY-					
CHEST X-RAY (PA)			YES	_	
COMMENTS ON LABORATORY RESULTS:			YES	ANNUAL	NO
PHYSICAL EXAMINATION:					
VITAL SIGNS			YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION	TO:				
CENTRAL NERVOUS SYSTEM			YES	ANNUAL	NO
PERIPHERAL NERVOUS SYSTEM (STR	ENGTH, SENSATIO	N, DTR)		ANNUAL	NO
LIVER				ANNUAL	NO
RESPIRATORY SYSTEM		a\		ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PIC	•	E.I.C.)	YES	_	_
OTHER APPROPRIATE EXAMINATION (SECONMENTS ON PHYSICAL EXAMINATION:	PECIFY)		YES	ANNUAL ANNUAL	NO NO
COMMENTS ON PHISICAL EXAMINATION:			IES	AMMUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH	H EXPOSURES LIST	TED BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO EX	KPOSURES/OCCUPA	TIONS	YES	ANNUAL	NO
RECOMMENDATIONS:			YES	ANNUAL	NO

REFERENCES: (1); (2); (3); (4); (5). PROGRAM REVISED 10/97.

## 137 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # 1,2-DIBROMO-3-CHLOROPROPANE TX8750000 96-12-8

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1044			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE		TERM
	LINE	ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:	YES	7 NTNTTT 7 T	YES
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) MAJOR ILLNESS OR INJURY	YES		
		_	YES
HOSPITALIZATION OR SURGERY	YES	_	
CANCER	YES		
BACK INJURY	YES	_	
DO YOU DRINK 6 OR MORE DRINKS (BEER, WINE, LIQUOR)	YES		-
HAVE YOU EVER SMOKED	YES		
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	_	YES
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES	YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	YES
BLOOD DISEASES (ANEMIA)	YES	ANNUAL	
SKIN DISEASES	YES	ANNUAL	YES
LIVER DISEASE	YES		
KIDNEY DISEASE	YES	ANNUAL	YES
IMPOTENCE OR SEXUAL DYSFUNCTION	YES	ANNUAL	YES
INFERTILITY OR MISCARRIAGE (SELF OR SPOUSE)	YES		
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	YES
LABORATORY SERUM CHEMISTRY:			
SERUM TOTAL ESTROGEN (FEMALE)	YES	_	
SERUM FOLLICLE STIMULATING HORMONE (FSH)	YES	ANNUAL	YES
SERUM LUTEINIZING HORMONE (LH) ADDITIONAL LAB TESTS:	YES	ANNUAL	YES
SPERM COUNT (MALE)	YES	ANNUAL	YES
COMMENTS ON LABORATORY RESULTS:	YES	ANNUAL	YES
PHYSICAL EXAMINATION:	TTD C		
VITAL SIGNS	YES	ANNUAL	
SPECIAL ATTENTION IN EXAMINATION TO:	YES	_	
GU (INCLUDING TESTICLE SIZE)	YES	_	YES
BODY HABITUS	YES	ANNUAL	
OTHER APPROPRIATE EXAMINATION (SPECIFY)	YES		
COMMENTS ON PHYSICAL EXAMINATION:	YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT	GIVEN	FOR:	BASE	PERI	TERM
				LINE	ODIC	EXAM
CDECTAL NOWAWTONG.						
SPECIAL NOTATIONS:						
SUBSTANCE(S) SUSPECTED HUMAI	N CARCING	OGEN		YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OPINION	REQUIRE	כ		YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT	r With Ex	XPOSURI	ES LISTED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED	TO EXPOS	SURES/0	OCCUPATIONS	YES	ANNUAL	YES
LISTED BELOW						
RECOMMENDATIONS:				YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (OTHER); 1. 29 CFR 1910.1044; 2. Journal of Occupational Medicine 32(10) 979-984,1990. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

Use of 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) as a fumigant in the U.S. has been banned by the EPA. Limited manufacturing may still be occurring.

Medical surveillance is to be made available in regulated areas and to workers exposed to DBCP in emergency situations. The OSHA standard on DBCP does not apply to: 1) exposure to DBCP which results solely from the application and use of DBCP as a pesticide; or 2) the storage, transportation, distribution, or sale of DBCP in intact containers sealed in such a manner as to prevent exposure to DBCP vapors or liquids.

# 3,3'-DICHLOROBENZIDINE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # 3,3'-DICHLOROBENZIDINE DD0525000 91-94-1

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1003

OBIR STANDARD 25 CFR 1510.1005				
EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER H	IAD?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY		YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY			ANNUAL	
CANCER			ANNUAL	
BACK INJURY		YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS	S PER WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS	S/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRE			ANNUAL	YES
CURRENT MEDICATION USE (PRESC	CRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES		YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCE	-		ANNUAL	
ALLERGIES (ASTHMA, HAY FEVER,	•		ANNUAL	
TREATMENT WITH STEROIDS OR CA			ANNUAL	
PROBLEMS WITH URINATION/BLOOD	_		ANNUAL	
CURRENT PREGNANCY (SELF OR SE	•	YES	ANNUAL	YES
IMPOTENCE OR SEXUAL DYSFUNCTI			ANNUAL	
INFERTILITY OR MISCARRIAGE (S	SELF OR SPOUSE)	YES	ANNUAL	YES
FAMILY HISTORY OF:				
GENETIC DISEASE (INCL CHILDRE	N)	YES	ANNUAL	YES
CANCERS (LEUKEMIA, TUMORS)	,		ANNUAL	
COMMENTS ON MEDICAL HISTORY:			ANNUAL	
		110	1111101111	120
LABORATORY-				
URINALYSIS:				
ROUTINE:				
URINALYSIS WITH MICROSCOPIO		YES	ANNUAL	YES
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT G	SIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:						
VITAL SIGNS	<b></b>			YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION GENITOURINARY TRACT	TO:			YES	ANNUAL	YES
IMMUNOCOMPETENCE (LYMPHATIC	SYSTEM)			YES	ANNUAL	
OTHER APPROPRIATE EXAMINATION (S	PECIFY)			YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:				YES	ANNUAL	YES
SPECIAL NOTATIONS:						
SUBSTANCE(S) SUSPECTED HUMAN CAR	CINOGEN			YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OPINION REQU	IRED			YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH	H EXPOSURES	LIST	TED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO EX				YES	ANNUAL	YES
LISTED BELOW RECOMMENDATIONS:				YES	ANNUAL	YES

REFERENCE: (OTHER); 29 CFR 1910.1003. Former standard 29 CFR 1910.1007. PROGRAM REVISED 10/97.

# 139 4-DIMETHYLAMINOAZOBENZENE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # 4-DIMETHYLAMINOAZOBENZENE BX7350000 60-11-7

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1003

EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD	?	1111111	ODIC	1322711
PERSONAL HISTORY OF:	•			
IS YOUR WORK EXPOSURE HISTORY C	HERENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY	ordini (ormiv 5100/15)		ANNUAL	
HOSPITALIZATION OR SURGERY			ANNUAL	
CANCER			ANNUAL	
BACK INJURY			ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS P	ER WEEK		ANNUAL	
(BEER, WINE, LIOUOR)			12110112	
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/D	AY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESS			ANNUAL	
CURRENT MEDICATION USE (PRESCRI	PTION OR OTC)		ANNUAL	
MEDICATION ALLERGIES	·	YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERN	S	YES	ANNUAL	YES
ALLERGIES (ASTHMA, HAY FEVER, E	CZEMA)	YES	ANNUAL	YES
TREATMENT WITH STEROIDS OR CANC	ER (CYTOTOXIC) DRUGS	YES	ANNUAL	YES
PROBLEMS WITH URINATION/BLOOD I	N URINE	YES	ANNUAL	YES
CURRENT PREGNANCY (SELF OR SPOU	SE)	YES	ANNUAL	YES
IMPOTENCE OR SEXUAL DYSFUNCTION		YES	ANNUAL	YES
INFERTILITY OR MISCARRIAGE (SEL	F OR SPOUSE)	YES	ANNUAL	YES
FAMILY HISTORY OF:				
GENETIC DISEASE (INCL CHILDREN)		YES	ANNUAL	YES
CANCERS (LEUKEMIA, TUMORS)			ANNUAL	
COMMENTS ON MEDICAL HISTORY:			ANNUAL	
LABORATORY-				
URINALYSIS:				
ROUTINE:				
URINALYSIS WITH MICROSCOPIC			ANNUAL	
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIV	'EN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:					
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:		YES	ANNUAL	YES
IMMUNOCOMPETENCE (LYMPHATIC SY	STEM)		YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (S	PECIFY)		YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:			YES	ANNUAL	YES
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CAR	CTNOGEN		YES	ANNIJAL	YES
PHYSICIAN'S WRITTEN OPINION REQU			YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WIT: ARE ANY ABNORMALITIES RELATED TO E: LISTED BELOW			YES YES	ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:			YES	ANNUAL	YES

REFERENCES: (1)(3); (OTHER); 29 CFR 1910.1003. Former standard 29 CFR 1910.1015. PROGRAM REVISED 10/97.

## 140 DINITRO-ORTHO-CRESOL

STRESSOR(S) IN THIS PROGRAM:

DINITRO-O-CRESOL

NIOSH # CAS # G09625000 534-52-1

DINITRO-O-CRESOL	GO9625000	534-52	-1
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR	: BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100)	•	_	NO
MAJOR ILLNESS OR INJURY	YES		NO
HOSPITALIZATION OR SURGERY	YES	_	NO
CANCER	YES	_	_
BACK INJURY	YES		
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	ANNUAL	NO
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	_	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE		ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	_	_
ANY REPRODUCTIVE HEALTH CONCERNS	YES	_	NO
SKIN DISEASE	YES	_	NO
LUNG OR RESP DISEASE (COPD, BRONCHITIS, PNEUMONITIS		ANNUAL	
USE OF NITRATE MEDICATION (NITROGLYCERINE)	YES	_	NO
WEIGHT LOSS	YES	_	NO
GLAUCOMA	YES		
LIVER DISEASE	YES		
KIDNEY DISEASE	YES	_	
THYROID DISEASE (HEAT OR COLD INTOLERANCE)	YES		
DEPRESSION, DIFFICULTY CONCENTRATING, EXCESSIVE ANXIETY	YES	ANNUAL	NO
WORK HISTORY OF:			
EXP TO DUSTS (COAL, BLAST. GRIT, SAND, NUISANCE)	YES	7 NTNTTT 7 T	NO
EXP TO DUSTS (COAL, BLAST. GRIT, SAND, NOTSANCE) EXP TO SKIN IRRITANTS	YES	_	NO
EXP TO SKIN IRRITANTS EXP TO RESPIRATORY IRRITANTS	YES	_	_
COMMENTS ON MEDICAL HISTORY:	YES	_	NO
COMMENTS ON MEDICAL HISTORY.	100	AMMUAL	NO
LABORATORY- URINALYSIS:			
ROUTINE:	37E.C	7 NTNTTT 7 T	NT.
URINALYSIS WITH MICROSCOPIC	YES	ANNUAL	NO
COMMENTS ON LABORATORY RESULTS:	YES	ANNUAL	NO

EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:			
VITAL SIGNS	YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION TO:			
CENTRAL NERVOUS SYSTEM	YES	ANNUAL	NO
PERIPHERAL NERVOUS SYSTEM (STRENGTH, SENSATION, DTR)	YES	ANNUAL	NO
CARDIOVASCULAR SYSTEM	YES	ANNUAL	NO
EYES	YES	ANNUAL	NO
ABDOMEN	YES	ANNUAL	NO
LIVER	YES	ANNUAL	NO
MUCOUS MEMBRANES	YES	ANNUAL	NO
RESPIRATORY SYSTEM	YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PIGMENT, ECZEMA, ETC)	YES	ANNUAL	NO
THYROID	YES	ANNUAL	NO
METABOLIC DISTURBANCE (FEVER, TACHYCARDIA)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SPECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:	YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS	YES	ANNUAL	NO
LISTED BELOW	MEG	7 ATATTT 7 T	NO
RECOMMENDATIONS:	YES	ANNUAL	NO

REFERENCES: (3); (OTHER); 1. NIOSH criteria for a recommended standard... Occupational Safety and Health Guideline for Dinitro-ortho-cresol, NIOSH Pub. No. 89-104, Supplement II-CHG; 2. Hayes WJ, Pesticides Studied in Man, Baltimore: Williams and Wilkins; 1982:466-470. PROGRAM REVISED 10/97.

### 141 DIOXANE

STRESSOR(S) IN THIS PROGRAM:

NIOSH # CAS #
DIOXANE

JG8225000 123-91-1

DIOXANE	JG8225000	123-91	-1
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/	15) YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY	YES	ANNUAL	NO
CANCER	YES	ANNUAL	NO
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	NO
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)			
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
HEPATITIS OR JAUNDICE	YES	ANNUAL	NO
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITI	S) YES	ANNUAL	NO
COUGHING UP BLOOD (HEMOPTYSIS)	YES	ANNUAL	NO
SHORTNESS OF BREATH	YES	ANNUAL	NO
LIVER DISEASE	YES	ANNUAL	NO
KIDNEY DISEASE	YES	ANNUAL	NO
WORK HISTORY OF:			
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY- SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE:			
SGOT (AST), TOT. BILI., ALK. PHOS.	YES	NO	NO
BUN AND CREATININE	YES	ANNUAL	NO
SGOT (AST)	YES	ANNUAL	NO
URINALYSIS: ROUTINE:			
URINALYSIS WITH MICROSCOPIC	YES	ANNUAL	NO
COMMENTS ON LABORATORY RESULTS:	YES	ANNUAL	NO
			-

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS		YES	7 NTNTT 7 T	NO
SPECIAL ATTENTION IN EXAMINATION	TO:	IES	ANNUAL	NO
LIVER		YES	ANNUAL	NO
MUCOUS MEMBRANES		YES	ANNUAL	NO
RESPIRATORY SYSTEM		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PI	GMENT, ECZEMA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (S	PECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WIT	H EXPOSURES LISTED BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO ELLISTED BELOW	XPOSURES/OCCUPATIONS	YES	ANNUAL	NO
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (3); (4); (OTHER); NIOSH criteria for a recommended standard...occupational exposure to dioxane, DHEW Pub. No. 77-226. PROGRAM REVISED 10/97.

# 142 EPICHLOROHYDRIN

STRESSOR(S) IN THIS PROGRAM:

EPICHLOROHYDRIN

NIOSH # CAS #
TX4900000 106-89-8

EPICHLOROHYDRIN	TX4900000	106-89	-8
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT GIVEN FOR:	BASE	PERI	TERM
		ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/	/15) YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY	YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY	YES	ANNUAL	YES
CANCER	YES	ANNUAL	YES
BACK INJURY	YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	YES
HAVE YOU EVER SMOKED	YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES	YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	YES
SKIN DISEASE	YES	ANNUAL	YES
HEPATITIS OR JAUNDICE	YES	ANNUAL	YES
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITI	IS) YES	ANNUAL	YES
LIVER DISEASE	YES	ANNUAL	YES
KIDNEY DISEASE	YES	ANNUAL	YES
IMPOTENCE OR SEXUAL DYSFUNCTION	YES	ANNUAL	YES
INFERTILITY OR MISCARRIAGE (SELF OR SPOUSE)	YES	ANNUAL	YES
WORK HISTORY OF:	-		
EXP TO SKIN IRRITANTS	YES	ANNUAL	YES
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	YES
LABORATORY- SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE:			
SGOT (AST), TOT. BILI., ALK. PHOS.	YES	NO	YES
BUN AND CREATININE	YES	ANNUAL	YES
SGOT (AST)	YES	ANNUAL	YES
URINALYSIS:	110		-10
ROUTINE:			
	WE C	*******	WE C
URINALYSIS WITH MICROSCOPIC	YES	ANNUAL	YES
RADIOLOGY -	VE C	MO	VEC
CHEST X-RAY (PA)	YES	NO	YES

EXAM ELEMENT	ELEMENT	GIVEN	FOR:		PERI ODIC	TERM EXAM
SPIROMETRY- SPIROMETRY (FVC, FEV1, FEV1/FVC) COMMENTS ON LABORATORY RESULTS:				YES YES	NO ANNUAL	
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION TO	):			YES	ANNUAL	YES
LIVER	-				ANNUAL	
RESPIRATORY SYSTEM SKIN (RASH, EROSION, ULCER, PIGME	ENT, ECZ	ZEMA, I	ETC)		ANNUAL ANNUAL	
OTHER APPROPRIATE EXAMINATION (SPEC	CIFY)				ANNUAL ANNUAL	
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CARC	CINOGEN			YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH E ARE ANY ABNORMALITIES RELATED TO EXPO					ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:				YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (4); (OTHER); NIOSH criteria for a recommended standard... occupational exposure to Epichlorohydrin, DHEW Pub. No. 76-206. PROGRAM REVIEWED 10/97.

## 143 ETHOXY AND METHOXY ETHANOL

 STRESSOR(S) IN THIS PROGRAM:
 NIOSH # CAS #

 2-ETHOXYETHANOL
 K8050000 110-80-5

 2-METHOXYETHANOL
 KL5775000 109-86-4

PROGRAM FREQUENCIES: ANNUAL			
EXAM ELEMENT GIVEN FOR:	BASE	PERI	TERM
MEDICAL HISTORY: HAVE YOU EVER HAD?	LINE	ODIC	EXAM
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)	YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY		ANNUAL	_
HOSPITALIZATION OR SURGERY		ANNUAL	_
CANCER	YES	ANNUAL	NO
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	ANNUAL	NO
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
BLOOD DISEASES (ANEMIA)		ANNUAL	
SKIN DISEASE		ANNUAL	_
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS		ANNUAL	_
KIDNEY DISEASE		ANNUAL	
CURRENT PREGNANCY (SELF OR SPOUSE)		ANNUAL	_
INFERTILITY OR MISCARRIAGE (SELF OR SPOUSE)		ANNUAL	_
PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS	YES	ANNUAL	NO
IN HANDS OR FEET			370
DEPRESSION, DIFF CONCENTRATING, EXCESSIVE ANXIETY	YES	ANNUAL	NO
WORK HISTORY OF:			
EXP TO SOLVENTS (MEK, PERC, TCE, TOLUENE)	YES	ANNUAL	NO
FAMILY HISTORY OF:			
BLOOD DISEASES (ANEMIA)	YES	ANNUAL	NO
GENETIC DISEASE (INCL CHILDREN)		ANNUAL	_
COMMENTS ON MEDICAL HISTORY:		ANNUAL	_
LABORATORY:			
HEMATOLOGY:			
COMPLETE BLOOD COUNT (HGB, HCT, WBC, MCV, MCH, MCHC)	YES	ANNUAL	NO
COMMENTS ON LABORATORY RESULTS:		ANNUAL	NO
COLUMNIC ON PRODUCTION REPORTS.	טעב	THATACHT	140

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:	YES	ANNUAL	NO
CENTRAL NERVOUS SYSTEM		YES	ANNUAL	NO
GENITOURINARY TRACT		YES	ANNUAL	NO
TESTES (MALE)		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PI	GMENT, ECZEMA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (S:	PECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	NO
SPECIAL NOTATIONS: SUBSTANCE(S) KNOWN MUTAGENIC OR	FETOTOXIC EFFECTS	YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH	H EXPOSURES LISTED BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO EXLISTED BELOW	XPOSURES/OCCUPATIONS	YES	ANNUAL	NO
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (1); (3); (4); (OTHER); The Glycol Ethers, with Particular Reference to 2-Methoxyethanol and 2-Ethoxyethanol: Evidence of Adverse Reproductive Effects, NIOSH Current Intelligence Bulletin 39, DHEW (NIOSH) Pub. No. 83-112. PROGRAM REVIEWED 10/97.

# 145 ETHYLENE DIBROMIDE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # ETHYLENE DIBROMIDE KH9275000 106-93-4

PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:  MEDICAL HISTORY: HAVE YOU EVER HAD?	BASE LINE	PERI ODIC	TERM EXAM
PERSONAL HISTORY OF:			
IS YOU WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY	YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY	YES	ANNUAL	YES
CANCER	YES	ANNUAL	YES
BACK INJURY	YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES	YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	YES
BLOOD DISEASES (ANEMIA)	YES	ANNUAL	YES
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	ANNUAL	YES
SKIN DISEASE	YES	ANNUAL	YES
HEPATITIS OR JAUNDICE	YES	ANNUAL	YES
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS)	YES	ANNUAL	YES
TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRUGS	YES	ANNUAL	YES
EYE IRRITATION	YES	ANNUAL	YES
LIVER DISEASE	YES	ANNUAL	YES
KIDNEY DISEASE	YES	ANNUAL	
IMPOTENCE OR SEXUAL DYSFUNCTION	YES	ANNUAL	YES
INFERTILITY OR MISCARRIAGE (SELF OR SPOUSE)	YES	ANNUAL	YES
WORK HISTORY OF:			
EXP TO SKIN IRRITANTS	YES	ANNUAL	YES
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	YES
FAMILY HISTORY OF:			
BLOOD DISEASES (ANEMIA)	YES	ANNUAL	YES
CANCERS (LEUKEMIA, TUMORS)	YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
LABORATORY- SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE:				
SGOT (AST), TOT. BILI., ALK. BUN AND CREATININE SGOT (AST)	PHOS.	YES	NO ANNUAL ANNUAL	YES
RADIOLOGY-				
CHEST X-RAY (PA) COMMENTS ON LABORATORY RESULTS:		YES YES	NO ANNUAL	YES YES
PHYSICAL EXAMINATION:				
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:	YES	ANNUAL	YES
EYES LIVER			ANNUAL ANNUAL	YES YES
RESPIRATORY SYSTEM SKIN (RASH, EROSION, ULCER, PIC	MENT, ECZEMA, ETC)		ANNUAL ANNUAL	
OTHER APPROPRIATE EXAMINATION (SECONMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL ANNUAL	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) SUSPECTED HUMAN CARC SUBSTANCE(S) KNOWN MUTAGENIC OR F			ANNUAL ANNUAL	YES YES
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX			ANNUAL ANNUAL	YES YES
LISTED BELOW RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (4); (OTHER); NIOSH Criteria for a recommended standard... occupational exposure to Ethylene Dibromide, NIOSH Pub. No. 77-221. PROGRAM REVIEWED 10/97.

# 146 ETHYLENE DICHLORIDE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # ETHYLENE DICHLORIDE K10525000 107-06-2

PROGRAM FREQUENCY: ANNUAL				
EXAM ELEMENT ELE	MENT GIVEN FOR:	BASE	PERI	TERM
		LINE	ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?				
PERSONAL HISTORY OF:	NTT / ODNASZ E100 /15 \	VEC	7. NTNTTT 7. T	MEG
IS YOUR WORK EXPOSURE HISTORY CURRE	NI (OPNAV 5100/15)		ANNUAL	YES
MAJOR ILLNESS OR INJURY HOSPITALIZATION OR SURGERY			ANNUAL	
CANCER			ANNUAL	
BACK INJURY			ANNUAL ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS PER W	TTT		ANNUAL	
(BEER, WINE, LIQUOR)	EEK		-	-
HAVE YOU EVER SMOKED			ANNUAL	
DO YOU CURRENTLY SMOKE (PACKS/DAY)			ANNUAL	
HEART DISEASE, HIGH BLOOD PRESSURE, CURRENT MEDICATION USE (PRESCRIPTIO			ANNUAL ANNUAL	
MEDICATION ALLERGIES  MEDICATION ALLERGIES				
ANY REPRODUCTIVE HEALTH CONCERNS			ANNUAL ANNUAL	
ALLERGIES (ASTHMA, HAY FEVER, ECZEM	77. \		ANNUAL	
SKIN DISEASE			ANNUAL	
HEPATITIS OR JAUNDICE			ANNUAL	
LUNG/RESP DISEASE (EX:COPD, BRONCHI	TIS PNEUMONITIS)		ANNUAL	
TREATMENT WITH STEROIDS OR CANCER (			ANNUAL	
WEIGHT LOSS		YES	ANNUAL	YES
LIVER DISEASE			ANNUAL	
KIDNEY DISEASE			ANNUAL	
WORK HISTORY OF:				
EXP TO SKIN IRRITANTS		YES	ANNUAL	YES
EXP TO RESPIRATORY IRRITANTS			ANNUAL	
			12110112	
FAMILY HISTORY OF:		WEG.	7 NTNTTT 7 T	3700
CANCERS (LEUKEMIA, TUMORS)			ANNUAL	
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	YES
LABORATORY- HEMATOLOGY:				
COMPLETE BLOOD COUNT (HGB, HCT, WBC	, MCV, MCH, MCHC)	YES	ANNUAL	YES
DIFFERENTIAL WHITE BLOOD CELL COUNT			ANNUAL	
SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE:		-	-	
SGOT (AST), TOT. BILI., ALK. PHOS		YES	NO	YES
BUN AND CREATININE	•		ANNUAL	
SGOT (AST)		YES	ANNUAL	YES
DGOI (ADI)		TEO	WINDWIT	TEO

EXAM ELEMENT	ELEMENT	GIVEN	FOR:	BASE LINE		TERM EXAM
URINALYSIS: ROUTINE: URINALYSIS WITH MICROSCOPIC				YES	ANNUAL	YES
RADIOLOGY-						
CHEST X-RAY (PA) COMMENTS ON LABORATORY RESULTS:				YES YES	NO ANNUAL	
PHYSICAL EXAMINATION:						
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:			YES	ANNUAL	YES
EYES	10			YES	ANNUAL	YES
LIVER					ANNUAL	
RESPIRATORY SYSTEM SKIN (RASH, EROSION, ULCER, PIO	CMENT EC7	יביאויא נ	₽ <b>Т</b> С \		ANNUAL ANNUAL	
OTHER APPROPRIATE EXAMINATION (S)	•	EMA, I	510)		ANNUAL	
COMMENTS ON PHYSICAL EXAMINATION:					ANNUAL	
SPECIAL NOTATIONS:						
SUBSTANCE(S) SUSPECTED HUMAN CARC	CINOGEN			YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX				YES YES	ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:				YES	ANNUAL	YES

REFERENCES: (2); (3); (4); (OTHER); NIOSH criteria for a recommended standard...occupational exposure to Ethylene Dichloride, NIOSH Pub. No. 76-139. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

Ethylene dichloride is a central nervous system depressant and causes injury to the liver and kidneys. Animal studies indicate that it has little ability to adversely affect the reproductive or developmental processes except at maternally toxic levels. (3)

# 148 ETHYLENE OXIDE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # ETHYLENE OXIDE KX2450000 75-21-8

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1047

OBIRI BIRMDING 25 CIR 1510.1017				
EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	
MEDICAL HISTORY: HAVE YOU EVER HAD	?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY C	URRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY		YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY		YES	ANNUAL	YES
CANCER		YES	ANNUAL	YES
BACK INJURY		YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS P	ER WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/D	AY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESS	URE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCRI	PTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES		YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERN	S	YES	ANNUAL	YES
BLOOD DISEASES (ANEMIA)		YES	ANNUAL	YES
ALLERGIES (ASTHMA, HAY FEVER, E	CZEMA)	YES	ANNUAL	YES
SKIN DISEASE		YES	ANNUAL	YES
HEPATITIS OR JAUNDICE			ANNUAL	
LUNG/RESP DISEASE (EX:COPD, BRO	NCHITIS, PNEUMONITIS)		ANNUAL	
TREATMENT WITH STEROIDS OR CANC		YES	ANNUAL	YES
HEADACHE, DIZZINESS, LIGHT-HEAD	EDNESS, WEAKNESS	YES	ANNUAL	YES
EYE IRRITATION		YES	ANNUAL	YES
INFERTILITY OR MISCARRIAGE (SEL	F OR SPOUSE)	YES	ANNUAL	YES
PROBLEMS WITH BALANCE, NUMBNESS	, AND TINGLING	YES	ANNUAL	YES
IN HANDS OR FEET				
WORK HISTORY OF:				
EXP TO CHEMOTHERAPEUTIC/ANTINEO	PLASTIC AGENTS	YES	ANNUAL	YES
EXP TO ANESTHETIC GASES		YES	ANNUAL	YES
EXP TO SKIN IRRITANTS		YES	ANNUAL	YES
FAMILY HISTORY OF:				
BLOOD DISEASES (ANEMIA)			ANNUAL	
GENETIC DISEASE (INCL CHILDREN)			ANNUAL	
CANCERS (LEUKEMIA, TUMORS)		YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
LABORATORY- HEMATOLOGY:				
COMPLETE BLOOD COUNT (HGB, HO	CT, WBC, MCV, MCH, MCHC)	YES	ANNUAL	YES
DIFFERENTIAL WHITE BLOOD CELI	COUNT	YES	ANNUAL	YES
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES
PHYSICAL EXAMINATION:		77D.C	7 3 TO TILD T	1700
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	ON TO:	YES	ANNUAL	YES
CENTRAL NERVOUS SYSTEM		YES	ANNUAL	YES
PERIPHERAL NERVOUS SYSTEM (ST	TRENGTH, SENSATION, DTR)	YES	ANNUAL	YES
EYES		YES	ANNUAL	YES
GENITOURINARY TRACT		YES	ANNUAL	YES
RESPIRATORY SYSTEM			ANNUAL	YES
SKIN (RASH, EROSION, ULCER, F			ANNUAL	
OTHER APPROPRIATE EXAMINATION	•	-	ANNUAL	
COMMENTS ON PHYSICAL EXAMINATION:	:	YES	ANNUAL	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) SUSPECTED HUMAN CA			ANNUAL	
SUBSTANCE(S) SUSPECTED HUMAN MUEFFECTS	JTAGENIC/FETOTOXIC	YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OPINION REQ	QUIRED	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT W	TH EXPOSURES LISTED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO LISTED BELOW	EXPOSURES/OCCUPATIONS	YES	ANNUAL	YES
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (OTHER); 1. 29 CFR 1919.1047. 2. NIOSH Current Intelligence Bulletin #35, Ethylene Oxide; PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

Refer to 29 CFR 1910.1047 for exams required following acute exposure or for exams with positive findings.

A Physician's Written Opinion is required by OSHA Standard. A sample Physician's Written Opinion can be found in Appendix E.

Pregnancy tests or laboratory evaluation of fertility may be ordered by the examining physician if requrested by the employee and deemed appropriate by the physician. Similar evaluation may be indicated if there are positive responses to medical history questions pertaining to the reproductive system. Refer to 29 CFR 1910.1047.

# 149 ETHYLENIMINE

NIOSH # CAS # KX5075000 151-56-4 STRESSOR(S) IN THIS PROGRAM: ETHYLENEIMINE

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1003			
EXAM ELEMENT ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:		0210	
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100)	/15) YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY		ANNUAL	
HOSPITALIZATION OR SURGERY	YES	ANNUAL	YES
CANCER	YES	ANNUAL	YES
BACK INJURY		ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	YES
HAVE YOU EVER SMOKED	YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES	YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	YES
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	ANNUAL	YES
SKIN DISEASE	YES	ANNUAL	YES
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITI	IS) YES	ANNUAL	YES
TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRUG	SS YES	ANNUAL	YES
EYE IRRITATION		ANNUAL	
CURRENT PREGNANCY (SELF OR SPOUSE)	YES	ANNUAL	YES
WORK HISTORY OF:			
EXP TO SKIN IRRITANTS FAMILY HISTORY OF:	YES	ANNUAL	YES
GENETIC DISEASE (INCL CHILDREN)	YES	ANNUAL	YES
CANCERS (LEUKEMIA, TUMORS)		ANNUAL	
COMMENTS ON MEDICAL HISTORY:		ANNUAL	
LABORATORY- SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE:			
SGOT (AST), TOT. BILI., ALK. PHOS. SGOT (AST)	YES YES	NO ANNUAL	
RADIOLOGY-	120	111110111	110
CHEST X-RAY (PA)	YES	NO	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		REM OVAL
SPIROMETRY- SPIROMETRY (FVC, FEV1, FEV1/FVC COMMENTS ON LABORATORY RESULTS:	2)	YES YES	NO ANNUAL	
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:	YES	ANNUAL	YES
EYES		YES	ANNUAL	YES
RESPIRATORY SYSTEM		YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER, PIG	GMENT, ECZEMA, ETC)	YES	ANNUAL	YES
IMMUNOCOMPETENCE (LYMPHATIC SYS	STEM)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (SE	PECIFY)	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) SUSPECTED HUMAN CARC	CINOGEN	YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OPINION REQUI	RED	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH	I EXPOSURES LISTED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO EX	POSURES/OCCUPATIONS	YES	ANNUAL	YES
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (OTHER); 1. NIOSH OSH Guidelines to Chemical Hazards Supplement #2, U.S. Dept. of HHS, Public Health Service, CDC, NIOSH, division of Standards Development, Cincinnati, OH 1988; 2. OSHA STANDARD 29 CFR 1910.1003. Former standard 29 CFR 1910.1012. PROGRAM REVISED 10/97.

150 FLUORIDES (INORGANIC)			
FLUORIDES CALCIUM FLUORIDE CARBONYL FLUORIDE PERCHLORYL FLUORIDE SULFURYL FLUORIDE FLUORINE HYDROFLUORIC ACID	NIOSH # LM6290000 EW1760000 FG6125000 SD1925000 WT5075000 LM6475000 MW7875000	16984-4 7789-79 353-50- 7616-94 2699-79 7782-43	5-5 -4 4-6 9-8 1-4
PROGRAM FREQUENCIES: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:  MEDICAL HISTORY: HAVE YOU EVER HAD?	BASE LINE		TERM EXAM
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/MAJOR ILLNESS OR INJURY HOSPITALIZATION OR SURGERY CANCER BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED DO YOU CURRENTLY SMOKE (PACKS/DAY) HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO NO NO NO NO NO
MEDICATION ALLERGIES ANY REPRODUCTIVE HEALTH CONCERNS ALLERGIES (ASTHMA, HAY FEVER, ECZEMA) SKIN DISEASE HEPATITIS OR JAUNDICE LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITI EYE IRRITATION CHRONIC ABDOMINAL PAIN, VOMITING, OTHER GI SYMPTOM	YES	ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL	NO NO NO NO NO NO NO
KIDNEY DISEASE MUSCLE OR JOINT PROBLEMS	YES YES	ANNUAL ANNUAL	
WORK HISTORY OF: EXP TO HYDROGEN FLUORIDE OR INORGANIC FLUORIDES	-	ANNUAL	
EXP TO HIDROGEN FLOORIDE OR INORGANIC FLOORIDES EXP TO SKIN IRRITANTS EXP TO RESPIRATORY IRRITANTS	YES YES YES	ANNUAL ANNUAL	NO NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY- URINALYSIS: ROUTINE: URINE FLUORIDE - POST SHIFT	YES	***	NO
			-

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
RADIOLOGY- CHEST X-RAY (PA) COMMENTS ON LABORATORY RESULTS:		YES YES	NO ANNUAL	NO NO
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION	TO:			
EYES		YES	ANNUAL	NO
TEETH (ACID EROSION)		YES	ANNUAL	NO
MUCOUS MEMBRANES		YES	ANNUAL	NO
RESPIRATORY SYSTEM		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PI	GMENT, ECZEMA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (S	PECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WIT	H EXPOSURES LISTED BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO E	XPOSURES/OCCUPATIONS	YES	ANNUAL	NO
LISTED BELOW		***		370
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (1); (2); (3); (4); (OTHER); NIOSH criteria for a recommended standard...Occupational Exposure to Inorganic Fluorides DHEW Pub. No. 76-103. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

A preplacement spot urine fluoride is obtained for a baseline as an indicator of body burden. (Reference DHEW Pub. No. 76-103)

\*\*\*At the time of the periodic examination, evaluate the need to perform a urine fluoride test. Postshift examination of the urine fluoride reflects recent exposure (in the preceding hours) and is not useful for biological monitoring if the employee has not been exposed to fluoride. The best time to obtain the urine specimen is at the end of a work week after the employee has been involved in tasks with fluoride exposure during that week. Because of the episodic exposure of most employees, the laboratory work obtained for the annual medical surveillance may not coincide with an exposure period. Ideally, the biological monitoring should be collected at the same time the Industrial Hygienist collects environmental samples.

# 151 FORMALDEHYDE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # FORMALDEHYDE LP8925000 50-00-0

PROGRAM FREQUENCY: ANNUAL (SEE PROVIDER COMMENTS)

OSHA STANDARD 29 CFR 1910.1048

EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	
MEDICAL HISTORY: HAVE YOU	EAEB HADS	LINE	ODIC	EXAM
PERSONAL HISTORY OF:	TVIII IIID.			
IS YOUR WORK EXPOSURE	HISTORY CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJUR	Y	YES	ANNUAL	YES
HOSPITALIZATION OR SUR	GERY	YES	ANNUAL	YES
CANCER		YES	ANNUAL	YES
BACK INJURY		YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE (BEER, WINE, LIQUOR)		YES	ANNUAL	YES
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE	(PACKS/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BL	OOD PRESSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE	(PRESCRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES		YES	ANNUAL	YES
ANY REPRODUCTIVE HEALT	'H CONCERNS	YES	ANNUAL	YES
ALLERGIES (ASTHMA, HAY	FEVER, ECZEMA)	YES	ANNUAL	
SKIN DISEASE		YES	ANNUAL	YES
RECURRENT SKIN RASH		YES	ANNUAL	YES
HEPATITIS OR JAUNDICE		YES	ANNUAL	
LUNG/RESP DISEASE (EX:	COPD, BRONCHITIS, PNEUMONITIS)	YES	ANNUAL	YES
CONTACT LENS USE		YES	ANNUAL	YES
EYE IRRITATION		YES	_	
COUGHING UP BLOOD (HEM	,	YES	_	
COUGH (DRY OR PRODUCTI	VE)	YES		
LIVER DISEASE		YES	ANNUAL	YES
FAMILY HISTORY OF:				
CANCERS (LEUKEMIA, TUM	IOD C \	YES	ANNUAL	VEC
CANCERS (LEUREMIA, 10M COMMENTS ON MEDICAL HISTOR	· · · · · · · · · · · · · · · · · · ·	YES	_	
COMMENTS ON MEDICAL HISTOR	.1 •	150	AMMOAL	IEO
LABORATORY-				
RADIOLOGY-				
CHEST X-RAY (PA)		YES	NO	YES
SPIROMETRY-				
SPIROMETRY (FVC, FEV1,	FEV1/FVC)	YES	ANNUAL	YES
COMMENTS ON LABORATORY RES	ULTS:	YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:	YES	ANNUAL	YES
EYES  MUCOUS MEMBRANES  NASAL MUCOSA (SEPTAL PERFORATION RESPIRATORY SYSTEM  SKIN (RASH, EROSION, ULCER, PICOTHER APPROPRIATE EXAMINATION (SECOMMENTS ON PHYSICAL EXAMINATION:	ON) SMENT, ECZEMA, ETC)	YES YES YES YES YES YES YES		YES YES YES YES YES YES
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CARC PHYSICIAN'S WRITTEN OPINION REQUI		YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX LISTED BELOW RECOMMENDATIONS:		YES YES YES	ANNUAL ANNUAL	YES YES YES

REFERENCES: (5); (OTHER); 29 CFR 1910.1048; NIOSH criteria for a recommended standard...Occupational Exposure to Formaldehyde DHEW Pub. No. 77-186. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

The OSHA standard requires an annual medical examination for all workers whose exposure requires use of respirators for protection. For those workers whose exposure does not require a respirator, the examiner shall review the medical and work history and determine whether an examination is required. The OSHA standard requires annual spirometry for all exposed workers who wear respirators.

Examinations are required for employees exposed to formaldehyde in an emergency. Refer to 29 CFR 1910.1048.

A Physician's Written Opinion is required by OSHA Standard. A sample Physician's Written Opinion can be found in Appendix E.

152 GLYCIDYL ETHERS			
STRESSOR(S) IN THIS PROGRAM: RESORCINOL DIGLYCIDYL ETHER OXIRANE, ((2-PROPENYLOXY)METHYL) PROPANE, 1,2-EPOXY-3-ISOPROPYL	NIOSH # VH1050000 RR0875000 TZ3500000	101-90- 106-92-	-3
ETHER, BIS (2,3-EPOXY PROPYL) PROPANE, 1,2-EPOXY-3-PHENOXY PROPANE, 1-BUTOXY-2,3-EPOXY 1-PROPANOL,2,3-EPOXY	KN2350000 TZ3675000 TX4200000 UB4375000	2238-0° 122-60- 2426-08	7-5 -1 3-6
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN	FOR: BASE LINE	PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV MAJOR ILLNESS OR INJURY	5100/15) YES YES	ANNUAL ANNUAL	
HOSPITALIZATION OR SURGERY	YES YES	ANNUAL ANNUAL	NO
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	NO
HAVE YOU EVER SMOKED DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES YES	ANNUAL ANNUAL	
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES YES	ANNUAL ANNUAL	
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES YES	ANNUAL ANNUAL	
SKIN DISEASE LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUM	YES ONITIS) YES	ANNUAL ANNUAL	
EYE IRRITATION INFERTILITY OR MISCARRIAGE (SELF OR SPOUSE)	YES YES	ANNUAL ANNUAL	
WORK HISTORY OF:		11111011	2.0
EXP TO SKIN IRRITANTS	YES	ANNUAL	
EXP TO RESPIRATORY IRRITANTS COMMENTS ON MEDICAL HISTORY:	YES YES	ANNUAL ANNUAL	
LABORATORY-			
SPIROMETRY: SPIROMETRY (FEV1, FVC, FEV1/FVC)	YES	NO	NO
COMMENTS ON LABORATORY RESULTS:	YES	NO	NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION	TO:			
EYES		YES	ANNUAL	NO
MUCOUS MEMBRANES		YES	ANNUAL	NO
RESPIRATORY SYSTEM		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PI	GMENT, ECZEMA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (S	PECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WIT	H EXPOSURES LISTED BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO E	XPOSURES/OCCUPATIONS	YES	ANNUAL	NO
LISTED BELOW				
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (1); (3); (4); (5). PROGRAM REVISED 10/97.

#### 155 HYDRAZINES STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # MV2450000 57-14-7 1,1-DIMETHYLHYDRAZINE HYDRAZINE MV7175000 302-01-2 PHENYLHYDRAZINE MV8925000 100-63-0 MV5600000 60-34-4 METHYL HYDRAZINE PROGRAM FREQUENCY: ANNUAL ELEMENT GIVEN FOR: BASE PERI EXAM ELEMENT TERM LINE ODIC EXAM MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) YES ANNUAL YES MAJOR ILLNESS OR INJURY YES ANNUAL YES HOSPITALIZATION OR SURGERY YES ANNUAL YES CANCER YES ANNUAL YES YES ANNUAL YES BACK INJURY YES ANNUAL YES DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED YES ANNUAL YES DO YOU CURRENTLY SMOKE (PACKS/DAY) YES ANNUAL YES YES ANNUAL YES YES ANNUAL YES HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC) YES ANNUAL YES MEDICATION ALLERGIES YES ANNUAL YES ANY REPRODUCTIVE HEALTH CONCERNS SKIN DISEASE YES ANNUAL YES HEPATITIS OR JAUNDICE YES ANNUAL YES LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS) TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRUGS HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS YES ANNUAL YES YES ANNUAL YES EYE IRRITATION KIDNEY DISEASE YES ANNUAL YES PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS YES ANNUAL YES IN HANDS OR FEET THYROID DISEASE (HEAT OR COLD INTOLERANCE) YES ANNUAL YES WORK HISTORY OF: EXP TO CHEMOTHERAPEUTIC/ANTINEOPLASTIC AGENTS YES ANNUAL YES EXP TO SKIN IRRITANTS YES ANNUAL YES EXP TO RESPIRATORY IRRITANTS YES ANNUAL YES FAMILY HISTORY OF: CANCERS (LEUKEMIA, TUMORS) YES ANNUAL YES YES ANNUAL YES COMMENTS ON MEDICAL HISTORY: LABORATORY-

COMPLETE BLOOD COUNT (HGB, HCT, WBC, MCV, MCH, MCHC) YES ANNUAL YES

HEMATOLOGY:

EXAM ELEMENT	ELEMENT (	GIVEN	FOR:		PERI ODIC	
SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI., ALK.	PHOS			YES		
SGOT (AST) URINALYSIS: ROUTINE:				YES	ANNUAL	YES
URINALYSIS WITH MICROSCOPIC RADIOLOGY:				YES	ANNUAL	YES
CHEST X-RAY (PA) SPIROMETRY:				YES	NO	YES
SPIROMETRY (FVC, FEV1, FEV1/FV COMMENTS ON LABORATORY RESULTS:	C)			YES YES	<b>NO</b> ANNUAL	
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:			YES	ANNUAL	YES
CENTRAL NERVOUS SYSTEM				YES	ANNUAL	
EYES				YES		
LIVER				YES		
RESPIRATORY SYSTEM	CMENTE ECT		7.m.a.\	YES	ANNUAL	
SKIN (RASH, EROSION, ULCER, PI THYROID	GMENI, ECZI	LMA, I	EIC)	YES YES	ANNUAL ANNUAL	
OTHER APPROPRIATE EXAMINATION (S	DECTEV)			YES	_	
COMMENTS ON PHYSICAL EXAMINATION:	FECIPI)			YES		
SPECIAL NOTATIONS:	CINOCEN			VIII C	7 17 17 7	VD0
SUBSTANCE(S) SUSPECTED HUMAN CAR	CINOGEN			YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WIT ARE ANY ABNORMALITIES RELATED TO E				YES YES	ANNUAL ANNUAL	
LISTED BELOW	VEODOKED/O(	LCUPA.	I TOIND			
RECOMMENDATIONS:				YES	ANNUAL	YES

REFERENCES: (1); (3); (5); (OTHER); NIOSH criteria for a recommended standard...Occupational Exposure to Hydrazines, DHEW Pub. No. 78-172. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

The potential for worker exposure is primarily through inhalation and skin absorption. Liquid in the eyes or on the skin causes severe burns. Hydrazine as the vapor or liquid is a severe skin and mucous membrane irritant, a convulsant, a hepatotoxin, and a carcinogen in animals.(1) EMERGENCY NOTE: "Exposure to high quantities of this agent can result in severe illness or death with some effects taking hours or days to materialize. In acute over-exposure situations, evaluation should take place in a setting where staff are able to assess and respond rapidly to life-threatening organ failure.

156 HYDROGEN CYANIDE/CYANIDE SALTS		
	NT 0 CIT	GRG II
STRESSOR(S) IN THIS PROGRAM:	NIOSH #	
HYDROGEN CYANIDE AND CYANIDE SALTS	MW6825000	
CYANIDES	GS7175000	
CYANAMIDE	GS5950000	
CYANOGEN	GT1925000	
CYANOGEN CHLORIDE	GT2275000	
CALCIUM CYANAMIDE	GS6000000	
METHYLACRYLONITRILE	UD1400000	
METHYL 2-CYANOACRYLATE	AS700000	
SILVER CYANIDE	VW3850000	
CALCIUM CYANIDE	EW070000	
POTASSIUM CYANIDE	TS8750000	
SODIUM CYANIDE	VZ7525000	143-33-9
PROGRAM FREQUENCY: ANNUAL		
EXAM ELEMENT ELEMENT GIVEN FOR	: BASE	PERI TERM
	LINE	ODIC EXAM
MAJOR ILLNESS OR INJURY HOSPITALIZATION OR SURGERY CANCER BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PER WEEK? (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED DO YOU CURRENTLY SMOKE (PACKS/DAY) HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC) MEDICATION ALLERGIES ANY REPRODUCTIVE HEALTH CONCERNS SKIN DISEASE LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONIT, HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS NAUSEA OR VOMITING TREMORS CHEST DAIN ANGINA HEART ATTACK PALPITATIONS	YES YES YES	ANNUAL NO
CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS	YES	ANNUAL NO
CHRONIC ABDOMINAL PAIN, VOMITING, OTHER GI SYMPTO		ANNUAL NO
PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS IN FEET OR HANDS	YES	ANNUAL NO
THYROID DISEASE (HEAT OR COLD INTOLERANCE)	YES	ANNUAL NO

EXAM ELEMENT	ELEMENT G	GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
WORK HISTORY OF: EXP TO SKIN IRRITANTS EXP TO RESPIRATORY IRRITANTS COMMENTS ON MEDICAL HISTORY:				YES YES YES	ANNUAL ANNUAL ANNUAL	_
LABORATORY- RADIOLOGY- CHEST X-RAY (PA)				YES	NO	NO
COMMENTS ON LABORATORY RESULTS:				YES	NO	NO
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	I TO:			YES	ANNUAL	NO
CENTRAL NERVOUS SYSTEM				YES	ANNUAL	NO
CARDIOVASCULAR SYSTEM				YES	ANNUAL	NO
MUCOUS MEMBRANES				YES	ANNUAL	NO
RESPIRATORY SYSTEM				YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PI	GMENT, ECZE	EMA, E	ETC.)	YES	ANNUAL	
THYROID				YES	ANNUAL	
OTHER APPROPRIATE EXAMINATION (S	SPECIFY)			YES	ANNUAL	
COMMENTS ON PHYSICAL EXAMINATION:				YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WIT LISTED ON OPNAV 5100/15?	H EXPOSURES	S LIST	TED BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO E	XPOSURES/OC	CCUPAT	TIONS	YES	ANNUAL	NO
RECOMMENDATIONS:				YES	ANNUAL	NO

REFERENCES: (1); (2); (3); (4); (5); (OTHER); NIOSH criteria for a recommended standard...Occupational Exposure to Hydrogen Cyanide Salts, DHEW Pub. No. 77-108. PROGRAM REVISED 10/97.

# 158 HYDROGEN SULFIDE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # HYDROGEN SULFIDE MX1225000 7783-06-4

PROGRAM FREOUENCY: ANNUAL

PROGRAM FREQUENCY: ANNUAL				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER DERSONAL HISTORY OF:	HAD?			
IS YOUR WORK EXPOSURE HISTOR	Y CURRENT (OPNAV 5100/15)	YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY		YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY		YES	ANNUAL	NO
CANCER		YES	ANNUAL	NO
BACK INJURY		YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS (BEER, WINE, LIQUOR)	S PER WEEK	YES	ANNUAL	NO
HAVE YOU EVER SMOKED		YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACK)		YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRI	ESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRES	CRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES		YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONC	ERNS	YES	ANNUAL	NO
LUNG/RESP DISEASE (EX:COPD, 1	BRONCHITIS, PNEUMONITIS)	YES	ANNUAL	NO
HEADACHE, DIZZINESS, LIGHT-H	EADEDNESS, WEAKNESS	YES	ANNUAL	NO
WEIGHT LOSS		YES	ANNUAL	NO
TREMORS		YES	ANNUAL	NO
EYE IRRITATION		YES	ANNUAL	NO
EPILEPSY (SEIZURE DISORDER)		YES	ANNUAL	NO
PROBLEMS WITH NUMBNESS, TING IN HANDS OR FEET	LING, WEAKNESS	YES	ANNUAL	NO
MENTAL/EMOTIONAL ILLNESS		YES	ANNUAL	NO
DEPRESSION, DIFF CONCENTRATION	NG, EXCESSIVE ANXIETY	YES	ANNUAL	NO
PERSONALITY CHANGE		YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	NO
LABORATORY- RADIOLOGY-				
CHEST X-RAY (PA)		YES	NO	NO
COMMENTS ON LABORATORY RESULTS:		YES	NO	NO
PHYSICAL EXAMINATION: VITAL SIGNS		YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION	ON TO:	יהיד	1 11/11/01/11	110
CENTRAL NERVOUS SYSTEM		YES	ANNUAL	NO
PERIPHERAL NERVOUS SYSTEM (S	TRENGTH, SENSATION, DTR)		ANNUAL	NO
	,	~		

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
EYES RESPIRATORY SYSTEM OTHER APPROPRIATE EXAMINATION (SE COMMENTS ON PHYSICAL EXAMINATION:	ECIFY)	YES YES YES YES	ANNUAL ANNUAL ANNUAL ANNUAL	NO NO NO
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX LISTED BELOW RECOMMENDATIONS:		YES YES YES	ANNUAL ANNUAL	NO NO

REFERENCES: (1); (3); (4); (5); (OTHER); NIOSH criteria for a recommended standard...Occupational Exposure to Hydrogen Sulfide, DHEW Pub. No. 77-158. PROGRAM REVISED 10/97.

# 159 HYDROQUINONE (DIHYDROXY BENZENE)

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # HYDROQUINONE MX3500000 123-31-9

PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HICTORY HAVE VOH EVED HADO			
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15	) YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	
HOSPITALIZATION OR SURGERY	YES	ANNUAL	
CANCER	YES	ANNUAL	_
BACK INJURY	YES	_	_
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	ANNUAL	
(BEER, WINE, LIQUOR)	110	2111102111	110
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	_
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	
MEDICATION ALLERGIES	YES	ANNUAL	-
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	ANNUAL	NO
SKIN DISEASE	YES	ANNUAL	NO
EYE IRRITATION	YES	ANNUAL	NO
WORK HISTORY OF:			
EXP TO SKIN IRRITANTS	YES	ANNUAL	NO
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY-			
OPTOMETRY-			
VISION SCREEN (VISUAL ACUITY)	YES	ANNUAL	NO
SLIT LAMP EXAM	YES	ANNUAL	NO
COMMENTS ON LABORATORY RESULTS:	YES	ANNUAL	NO
PHYSICAL EXAMINATION:			
VITAL SIGNS	YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION TO:			
EYES (CONJUNCTIVA, SCLERA, LENS, RETINA)	YES	ANNUAL	
RESPIRATORY SYSTEM	YES	ANNUAL	-
SKIN (RASH, EROSION, ULCER, PIGMENT, ECZEMA, ETC)		ANNUAL	
OTHER APPROPRIATE EXAMINATION (SPECIFY)	YES	ANNUAL	
COMMENTS ON PHYSICAL EXAMINATION:	YES	ANNUAL	NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EXILISTED BELOW		YES YES	ANNUAL ANNUAL	NO NO
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (3); (4); (OTHER); NIOSH criteria for a recommended standard...Occupational Exposure to Hydroquinone, DHEW Pub. No. 78-155; ACGIH Documentation on TLV's, 1987. PROGRAM REVISED 10/97.

### PROVIDER COMMENTS:

Hydroquinone primarily affects the eyes. Chronic exposure produces changes characterized as: brownish discoloration of the conjunctiva and cornea confined to the interpalpebral tissue; small opacities of the cornea; and structural changes in the cornea that result in loss of visual acuity (3). Slit lamp exam is recommended to evaluate corneal changes and opacities.

196 ISOCYANATES			
STRESSOR(S) IN THIS PROGRAM:	NIOSH #	CAS #	
BENZENE, 2, 4-DIISOCYANATO-1-METHYL	CZ6300000	584-84	-9
HEXAME, 1,6-DIISOCYANATE	MO1740000		-0
ISOCYANIC ACID, METHYLENEDL-P-PHENELENE ESTER	NO9350000		
ISOCYANIC ACID, 1,5-NAPTHYLENE ESTER	NQ9600000		2-6
s-TRIAZINE-2,4,6-TRIOL	XZ1800000		-5
ISOCYANIC ACID, METHYLENE(3,5,5-TRIMETHYL-	NQ9370000	4098-7	1-9
3 CYCLOHEXYLENE) ESTER	~		
ISOCYANIC ACID, METHYLENEDI-4,1-CYCLOHEXYLENE-ESTER	R NQ9250000	5124-3	0-1
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR	R: BASE	PERI '	TERM
	LINE	ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 510)	0/15) YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	
HOSPITALIZATION OR SURGERY	YES	ANNUAL	_
CANCER	YES	ANNUAL	_
BACK INJURY	YES	_	
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES		
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	ANNUAL	NO
SKIN DISEASE	YES	ANNUAL	NO
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONI	TIS) YES	ANNUAL	NO
SHORTNESS OF BREATH	YES	ANNUAL	NO
COUGH (DRY OR PRODUCTIVE)	YES	ANNUAL	NO
WORK HISTORY OF:			
EXP TO SKIN IRRITANTS	YES	ANNUAL	NO
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	NO
EXP TO ISOCYANATE FOAM OR PAINT	YES	ANNUAL	NO
SENSITIZATION TO ISOCYANATES (TDI, MDI)	YES		
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY-			
RADIOLOGY:			
CHEST X-RAY (PA)	YES	NO	NO

EXAM ELEMENT	ELEMENT	GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
SPIROMETRY: SPIROMETRY (FVC, FEV1, FEV1/FVC COMMENTS ON LABORATORY RESULTS:	2)			YES YES	ANNUA ANNUA	_
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:			YES	ANNUA	L NO
RESPIRATORY SYSTEM				YES	ANNUA	L NO
SKIN (RASH, EROSION, ULCER, PIC	· · · · · · · · · · · · · · · · · · ·	EMA,	ETC)	YES	ANNUA	
OTHER APPROPRIATE EXAMINATION (SE	PECIFY)			YES	ANNUA	L NO
COMMENTS ON PHYSICAL EXAMINATION:				YES	ANNUA	L NO
IS SURVEILLANCE/PPE CONSISTENT WITH	H EXPOSURE	S LIS	TED BELOW	YES	ANNUA	L NO
ARE ANY ABNORMALITIES RELATED TO EX	KPOSURES/O	CCUPA'	TIONS	YES	ANNUA	L NO
RECOMMENDATIONS:				YES	ANNUA	L NO

REFERENCES (2); (3); (4); (5); (OTHER); 1. NIOSH criteria for a recommended standard...Occupational Exposure to Toluene Diisocyanates, DHEW Pub. No. 73-11022; 2. Musk, AW, Peters JM, Wegman DH, Isocyanates and Respiratory Disease: Current Status, American Journal of Industrial Medicine, 1988;13:331-349. PROGRAM REVISED 10/97.

### PROVIDER COMMENTS:

Pulmonary function changes to isocyanate exposure tend to occur at the end of the work-shift of work-week of exposure. The PFT, therefore, is of most use when performed at such end of work-shift times.

# 161 LEAD (INORGANIC)

 STRESSOR(S) IN THIS PROGRAM:
 NIOSH # CAS #

 LEAD (INORGANIC)
 OF7525000
 7439-92-1

 CHROMIC ACID, LEAD (2+) SALT (1:)
 GB2975000
 7758-97-6

 LEAD PHOSPHATE (3:2)
 OG3675000
 7446-27-7

PROGRAM FREQUENCY: SEMI-ANNUAL FOR BIOLOGIC MONITORING

OSHA STANDARD 29 CFR 1910.1025

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER PERSONAL HISTORY OF:	R HAD?	LIND	ODIC	11111111
IS YOUR WORK EXPOSURE HISTO	DRY CURRENT (OPNAV 5100/15)	YES YES	SEMI-A	YES YES
HOSPITALIZATION OR SURGERY		YES	* * *	YES
CANCER		YES	* * *	YES
BACK INJURY		YES	* * *	YES
DO YOU DRINK 6 OR MORE DRIN (BEER, WINE, LIQUOR)	NKS PER WEEK	YES	***	YES
HAVE YOU EVER SMOKED		YES	* * *	YES
DO YOUR CURRENTLY SMOKE (PA	ACKS/DAY)	YES	* * *	YES
HEART DISEASE, HIGH BLOOD E	PRESSURE, OR STROKE	YES	* * *	YES
CURRENT MEDICATION USE (PRE	ESCRIPTION OR OTC)	YES	* * *	YES
MEDICATION ALLERGIES		YES	* * *	YES
ANY REPRODUCTIVE HEALTH CON	ICERNS	YES	* * *	YES
BLOOD DISEASES (ANEMIA)		YES	* * *	YES
HEADACHE, DIZZINESS, LIGHT-	-HEADEDNESS, WEAKNESS	YES	* * *	YES
CHRONIC ABDOMINAL PAIN, VON	MITING, OTHER GI SYMPTOMS	YES	* * *	YES
KIDNEY DISEASE	,	YES	* * *	YES
CURRENT PREGNANCY (SELF OR	SPOUSE)	YES	* * *	YES
IMPOTENCE OR SEXUAL DYSFUNC	CTION	YES	* * *	YES
INFERTILITY OR MISCARRIAGE	(SELF OR SPOUSE)	YES	* * *	YES
PROBLEMS WITH NUMBNESS, TIN IN HANDS OR FEET		YES	***	YES
DEPRESSION, DIFF CONCENTRAT	TING, EXCESSIVE ANXIETY	YES	* * *	YES
PERSONALITY CHANGE		YES	* * *	YES
COMMENTS ON MEDICAL HISTORY:		YES	* * *	YES
LABORATORY-				
HEMATOLOGY:				
COMPLETE BLOOD COUNT (HGB,	HCT, WBC, MCV, MCH, MCHC)	YES	* * *	YES
RBC MORPHOLOGY		YES	* * *	YES
SERUM CHEMISTRY:				
BUN AND CREATININE		YES	* * *	YES
BLOOD LEAD AND ZINC PROTOPO	ORPHYRIN (ZPP)	YES	SEMI-A	YES
URINALYSIS: ROUTINE:	, ,			
URINALYSIS WITH MICROSCOE	PIC	YES	***	YES
COMMENTS ON LABORATORY RESULTS		YES	SEMI-A	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:				
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATIO	N TO:	YES	* * *	YES
CENTRAL NERVOUS SYSTEM		YES	***	YES
PERIPHERAL NERVOUS SYSTEM (ST	RENGTH, SENSATION, DTR)	YES	***	YES
CARDIOVASCULAR SYSTEM		YES	* * *	YES
GUMS (E.G. LEAD LINES?)		YES	* * *	YES
ABDOMEN		YES	* * *	YES
OTHER APPROPRIATE EXAMINATION (	SPECIFY)	YES	* * *	YES
COMMENTS ON PHYSICAL EXAMINATION:		YES	***	YES
SPECIAL NOTATIONS:				
PHYSICIAN'S WRITTEN OPINION R	EQUIRED	YES	***	YES
IS SURVEILLANCE/PPE CONSISTENT WI ARE ANY ABNORMALITIES RELATED TO LISTED BELOW		YES YES	SEMI-A ***	YES YES
RECOMMENDATIONS:		YES	***	YES

A baseline examination is required prior to assignment to a position involving potential exposures to lead that equal or exceed the action level.

\*\*\*A medical examination identical in scope to the baseline will be conducted annually for each person found to have a blood lead concentration at or above  $30~\rm ug/100gm$  at any time during the prior year.

A termination examination identical in scope to the baseline, will be conducted just prior to the reassignment or termination of a person from a job requiring medical surveillance, unless a medical evaluation was done within the past twelve (12) months.

Guidelines for medical removal and follow-up, including written notification, are very specific. See 29 CFR 1910.1025, Appendix C, and NAVOSH manuals for guidance. REFERENCES: (5); (OTHER); 1. 29 CFR 1910.1025; 2. OPNAVINST 5100.23D, Chapter 21; 3. OPNAVINST 5100.19C, Chapter B10. 4. Industrial Hygiene Sampling Guide, consolidated Industrial Hygiene Laboratories, Current Edition. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

A Physician's Written Opinion is required by OSHA Standard. A sample Physician's Written Opinion can be found in Appendix E, E-7.

This program consists of; preplacement medical examination, semiannual blood lead monitoring, and follow-up medical evaluations and blood lead analysis based on the results of blood lead analysis and physician opinion. Personnel are included in this program when industrial hygiene surveillance indicates that they perform work or are likely to be in the vicinity of an operation which generates airborne lead concentrations at or above the Action Level 30 days per year. Inclusion in this program is based on measured airborne concentrations without regard to respirator use, and therefore does not indicate that an individual is overexposed to lead.

# 210 MANGANESE OXIDE FUMES

STRESSOR(S) IN THIS PROGRAM:
MANGANESE (AND COMPOUNDS)

NIOSH#
CAS#
009275000
7439-96-5

MANGANESE (AND COMPOUNDS)	009275000	7439-9	6-5
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/	15) YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY	YES	ANNUAL	NO
CANCER	YES	ANNUAL	NO
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	NO
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
BLOOD DISEASES (ANEMIA)	YES	ANNUAL	NO
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITI	S) YES	ANNUAL	NO
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS	YES	ANNUAL	NO
TREMORS	YES	ANNUAL	NO
COUGH	YES	ANNUAL	NO
PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS IN HANDS OR FEET	YES	ANNUAL	NO
MENTAL/EMOTIONAL ILLNESS	YES	ANNUAL	NO
DEPRESSION, DIFF CONCENTRATING, EXCESSIVE ANXIETY	YES	ANNUAL	NO
PERSONALITY CHANGE	YES	ANNUAL	NO
WORK HISTORY OF:			
EXP TO DUSTS (COAL, BLAST. GRIT, SAND, NUISANCE)	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY-			
RADIOLOGY:			
CHEST X-RAY (PA)	YES	NO	NO
SPIROMETRY:			
SPIROMETRY (FVC, FEV1, FEV1/FVC)	YES	NO	NO
COMMENTS ON LABORATORY RESULTS:	YES	NO	NO
COLLEGE ON DEPOCATOR! REPORTE.	150	110	140
PHYSICAL EXAMINATION:			
VITAL SIGNS	YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION TO:			
CENTRAL NERVOUS SYSTEM	YES	ANNUAL	NO

EXAM ELEME	NT	ELEMENT GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
RESPIRAT	AL NERVOUS SYSTEM (STR ORY SYSTEM OPRIATE EXAMINATION (SI	ENGTH, SENSATION	N, DTR)	YES YES YES	ANNUA! ANNUA!	L NO
COMMENTS ON	PHYSICAL EXAMINATION:			YES	ANNUA	L NO
	NCE/PPE CONSISTENT WITH RMALITIES RELATED TO EX			YES YES	ANNUA!	
RECOMMENDATI				YES	ANNUA	L NO

REFERENCES: (1); (2); (3). PROGRAM REVISED 10/97.

#### 163 MERCURY STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # ov4550000 7439-97-6 MERCURY (ARYL AND INORGANIC COMPOUNDS) MERCURY (ALKYL COMPOUNDS) OV4550000 7439-97-6 CHLOROETHYL MERCURY OV9800000 107-27-7 MERCURY (VAPOR) OV4550000 7439-97-6 PROGRAM FREQUENCY: ANNUAL ELEMENT GIVEN FOR: BASE PERI EXAM ELEMENT TERM LINE ODIC EXAM MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) YES ANNUAL YES MAJOR ILLNESS OR INJURY YES ANNUAL YES HOSPITALIZATION OR SURGERY YES ANNUAL YES CANCER YES ANNUAL YES BACK INJURY YES ANNUAL YES YES ANNUAL YES DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED YES ANNUAL YES DO YOU CURRENTLY SMOKE (PACKS/DAY) YES ANNUAL YES HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE YES ANNUAL YES CURRENT MEDICATION USE (PRESCRIPTION OR OTC) YES ANNUAL YES ANNUAL YES MEDICATION ALLERGIES YES ANNUAL YES ANY REPRODUCTIVE HEALTH CONCERNS YES ANNUAL YES SKIN DISEASE YES ANNUAL YES LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS) YES ANNUAL YES HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS YES ANNUAL YES WEIGHT LOSS YES ANNUAL YES TREMORS YES ANNUAL YES TOOTH OR GUM DISEASE YES ANNUAL YES KIDNEY DISEASE YES ANNUAL YES PROBLEMS WITH BALANCE AND COORDINATION YES ANNUAL YES PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS, YES IN HANDS OR FEET DEPRESSION, DIFF CONCENTRATING, EXCESSIVE ANXIETY YES ANNUAL YES PERSONALITY CHANGE YES ANNUAL YES ANNUAL YES COMMENTS ON MEDICAL HISTORY: YES LABORATORY-**HEMATOLOGY:** COMPLETE BLOOD COUNT (HGB, HCT, WBC, MCV, MCH, MCHC) YES ANNUAL YES DIFFERENTIAL WHITE BLOOD CELL COUNT YES ANNUAL YES SERUM CHEMISTRY: BUN AND CREATININE YES ANNUAL YES URINALYSIS: ROUTINE: URINALYSIS WITH MICROSCOPIC YES ANNUAL YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
URINE CHEMISTRY:				
URINE MERCURY		YES	ANNUAL	YES
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION	TO:			
CENTRAL NERVOUS SYSTEM		YES	ANNUAL	YES
PERIPHERAL NERVOUS SYSTEM (STRENG	GTH, SENSATION, DTR)	YES	ANNUAL	YES
RESPIRATORY SYSTEM		YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER, PIGME	INT, ECZEMA, ETC)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (SPEC	CIFY)	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH	EXPOSURES LISTED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO EX	IPOSURES/OCCUPATIONS	YES	ANNUAL	YES
LISTED BELOW				
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (4); (5); (OTHER); 1. NIOSH criteria for a recommended standard...Occupational Exposure to Inorganic Mercury, DHEW Pub. No. 73-11024. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

### Urine mercury levels can be performed on spot urine collections, but should be corrected to creatinine level.

Acute exposure to high concentrations of mercury vapor causes severe respiratory damage, whereas chronic exposure to lower levels is primarily associated with central nervous system damage.(3) Acute mercury poisoning can occur from inhalation of high concentrations of mercury vapor or dust. If the concentration of mercury vapor is high enough, the exposure will result in tightness and pain in the chest, difficulty in breathing, coughing, and shortly thereafter, a metallic taste, nausea, abdominal pain, vomiting diarrhea, headache, and occasionally albuminuria.

With chronic exposure to mercury vapor, early signs are nonspecific and include weakness, fatigue, anorexia, loss of weight and disturbances of gastrointestinal function. At higher exposure levels, a characteristic mercurial tremor appears. Personality changes are the most common findings in chronic mercurial poisoning. Symptoms may first occur after a very few weeks of exposure, or they may not become apparent for several years.(1) It has been estimated that the probability of manifesting typical mercurialism with tremor and behavioral changes will increase with exposures to concentrations of  $0.1 \text{mg/m}^3$  or higher. There is no evidence of effects at concentrations below  $0.01 \text{ mg/m}^3.(3)$ 

# 215 METHYL BROMIDE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # METHYL BROMIDE PA4900000 74-83-9

PROGRAM FREQUENCY: ANNUAL				
EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?				
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY CU	RRENT (OPNAV 5100/15)	YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY		YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY		YES	ANNUAL	NO
CANCER		YES	ANNUAL	NO
BACK INJURY		YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER	R WEEK	YES	ANNUAL	NO
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED		YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY	Y )	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSU	•	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPT		YES	ANNUAL	NO
MEDICATION ALLERGIES	,	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS		YES	ANNUAL	NO
SKIN DISEASE		YES	ANNUAL	NO
HEADACHE, DIZZINESS, LIGHT-HEADEI	ONFSS WFAKNFSS	YES	ANNUAL	NO
TREMORS	MESS, WEARNESS	YES	ANNUAL	NO
CHANGE OR LOSS OF VISION		YES	ANNUAL	NO NO
EYE IRRITATION		YES	_	NO
-			ANNUAL	_
EPILEPSY (SEIZURE DISORDER)		YES	ANNUAL	NO
NEUROLOGIC DISORDER, GAIT CHANGE COORDINATION LOSS	, PARESTHESIA,	YES	ANNUAL	NO
MENTAL/EMOTIONAL ILLNESS		YES	ANNUAL	NO
PERSONALITY CHANGE		YES	ANNUAL	NO
PROBLEMS WITH BALANCE AND COORDIN	NOTTAK	YES	ANNUAL	
PROBLEMS WITH NUMBNESS, TINGLING	_		ANNUAL	NO
HANDS OR FEET	, WEITHENDES III	110	7111102111	110
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	NO
LABORATORY-		120	111110111	110
RADIOLOGY:				
CHEST X-RAY (PA)		YES	NO	NO
SPIROMETRY:		110	140	110
SPIROMETRY (FVC, FEV1, FEV1/FVC)		YES	NO	NO
OPTOMETRY:		110	1,0	1.0
VISION SCREEN (VISUAL ACUITY)		YES	YES	NO
COMMENTS ON LABORATORY RESULTS:				

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATI	ON TO:			
CENTRAL NERVOUS SYSTEM		YES	ANNUAL	NO
PERIPHERAL NERVOUS SYSTEM (S	STRENGTH, SENSATION, DTR)	YES	ANNUAL	NO
RESPIRATORY SYSTEM		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER,	PIGMENT, ECZEMA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION	(SPECIFY):	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION	N:	YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT W	WITH EXPOSURES LISTED BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO	EXPOSURES/OCCUPATIONS	YES	ANNUAL	NO
LISTED BELOW				
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (1); (5); (OTHER); 1. NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards, U.S. Department Of Health And Human Services, Sept.1978; 2. Gunther FA, Gunther JD. Residue Reviews. New York, NY:Springer-Verlag; 1983: vol.88:102-150; 3. Cralley LJ, Cralley LV. Patty,s Industrial Hygiene And Toxicology 3rd Ed. New York, NY:John Wiley & Sons, Inc. 1981: vol.2B:3442-3444, 3472-3478; 4. Morgan DP. Recognition and Management of Pesticide Poisonings, Fourth Edition. United States Environmental Protection Agency. 1989:132-133. PROGRAM REVISED 10/97.

### 166 METHYL CHLOROMETHYL ETHER

NIOSH # CAS # KN6650000 107-30-2 STRESSOR(S) IN THIS PROGRAM: CHLOROMETHYL METHYL ETHER

PROGRAM FREQUENCY: ANNUAL OSHA STANDARD 29 CFR 1910.1003 ELEMENT GIVEN FOR: BASE PERI TERM EXAM ELEMENT LINE ODIC EXAM MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) YES ANNUAL YES MAJOR ILLNESS OR INJURY YES ANNUAL YES YES ANNUAL YES HOSPITALIZATION OR SURGERY YES ANNUAL YES CANCER BACK INJURY YES ANNUAL YES YES ANNUAL YES DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED YES ANNUAL YES DO YOU CURRENTLY SMOKE (PACKS/DAY) YES ANNUAL YES YES ANNUAL YES YES ANNUAL YES HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC) YES ANNUAL YES MEDICATION ALLERGIES ANY REPRODUCTIVE HEALTH CONCERNS YES ANNUAL YES YES ANNUAL YES ALLERGIES (ASTHMA, HAY FEVER, ECZEMA) TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRUGS YES ANNUAL YES ANNUAL YES DECREASED IMMUNITY YES ANNUAL YES
ANNUAL YES SHORTNESS OF BREATH YES COUGH (DRY OR PRODUCTIVE) YES YES ANNUAL YES
YES ANNUAL YES
YES ANNUAL YES
YES ANNUAL YES CURRENT PREGNANCY (SELF OR SPOUSE) IMPOTENCE OR SEXUAL DYSFUNCTION INFERTILITY OR MISCARRIAGE (SELF OR SPOUSE) FAMILY HISTORY OF: GENETIC DISEASE (INCLUDING CHILDREN) YES ANNUAL YES ANNUAL YES CANCERS (LEUKEMIA, TUMORS) YES COMMENTS ON MEDICAL HISTORY: YES LABORATORY: SPIROMETRY (FVC, FEV1, FEV1/FVC) YES ANNUAL YES

PHYSICAL EXAMINATION:

YES ANNUAL YES VITAL SIGNS

SPECIAL ATTENTION IN EXAMINATION TO:

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
RESPIRATORY SYSTEM IMMUNOCOMPETENCE (LYMPHATIC SY OTHER APPROPRIATE EXAMINATION (S COMMENTS ON PHYSICAL EXAMINATION:	•	YES YES YES YES	ANNUAL ANNUAL ANNUAL ANNUAL	YES YES YES YES
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CAR PHYSICIAN'S WRITTEN OPINION REQU		YES YES	ANNUAL ANNUAL	YES YES
IS SURVEILLANCE/PPE CONSISTENT WIT ARE ANY ABNORMALITIES RELATED TO E LISTED BELOW		YES YES	ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCE: (3); (OTHER); 29 CFR 1910.1003. Former standard 29 CFR 1910.1006. PROGRAM REVISED 10/97.

### PROVIDER COMMENTS:

Commercial grade CMME is contaminated with bis-Chloromethylether. Commercial grade CMME is a known human carcinogen. REFERENCE: IARC Monograph on the Evaluation of Carcinogenic Risks to Humans: Overall Evaluation of Carcinogenicity: An updating of IARC Monographs, Vol 1-42, Supp 7, pp 131-132. Lyon International Agency for Research on Cancer, 1987.

# 167 4,4'-METHYLENE BIS (2-CHLOROANILINE) (MOCA)

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # 4,4'-METHYLENE BIS(2-CHLOROANILINE) CY1050000 101-14-4

4,4 -MEINILENE DIS(Z-CHLOROANILLINE)	C11030000	101-14-	-4
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR MEDICAL HISTORY: HAVE YOU EVER HAD?	: BASE LINE		TERM EXAM
PERSONAL HISTORY OF:  IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100 MAJOR ILLNESS OR INJURY HOSPITALIZATION OR SURGERY CANCER BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED DO YOU CURRENTLY SMOKE (PACKS/DAY) HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC) MEDICATION ALLERGIES ANY REPRODUCTIVE HEALTH CONCERNS TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRU LIVER DISEASE CURRENT PREGNANCY (SELF OR SPOUSE) IMPOTENCE OR SEXUAL DYSFUNCTION INFERTILITY OR MISCARRIAGE (SELF OR SPOUSE)	YES	ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL	YES
WORK HISTORY OF: EXP TO CARCINOGENS	YES	ANNUAL	YES
FAMILY HISTORY OF:  GENETIC DISEASE (INCL CHILDREN)  CANCERS (LEUKEMIA, TUMORS)  COMMENTS ON MEDICAL HISTORY:	YES YES YES	_	YES
LABORATORY- SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE: SGOT (ast), TOT. BILI., ALK. PHOS. SGOT (AST) URINALYSIS: ROUTINE: URINALYSIS WITH MICROSCOPIC	YES YES YES	NO ANNUAL ANNUAL	YES
	_		

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
RADIOLOGY- CHEST X-RAY (PA) COMMENTS ON LABORATORY RESULTS:		YES YES	NO ANNUAL	YES YES
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:	YES	ANNUAL	YES
LIVER OTHER APPROPRIATE EXAMINATION (SECONMENTS ON PHYSICAL EXAMINATION:	PECIFY)	YES YES YES	ANNUAL ANNUAL ANNUAL	YES YES YES
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CARO	CINOGEN	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX		YES YES	ANNUAL ANNUAL	YES YES
LISTED BELOW RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (4). PROGRAM REVISED 10/97.

### 168 METHYLENE CHLORIDE (DICHLOROMETHANE)

COMMENTS ON MEDICAL HISTORY:

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # PA8050000 75-09-2 METHYLENE CHLORIDE

PROGRAM FREQUENCY: ANNUAL OSHA STANDARD 29 CFR 1910.1052 ELEMENT GIVEN FOR: BASE PERI TERM EXAM ELEMENT LINE ODIC EXAM MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) YES ANNUAL YES MAJOR ILLNESS OR INJURY YES ANNUAL YES HOSPITALIZATION OR SURGERY YES ANNUAL YES YES ANNUAL YES CANCER YES ANNUAL YES BACK INJURY YES ANNUAL YES DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED YES ANNUAL YES YES ANNUAL YES DO YOU CURRENTLY SMOKE (PACKS/DAY) YES ANNUAL YES YES ANNUAL YES HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC) MEDICATION ALLERGIES YES ANNUAL YES ANY REPRODUCTIVE HEALTH CONCERNS YES ANNUAL YES YES ANNUAL YES BLOOD DISEASES (ANEMIA) YES ANNUAL YES SKIN DISEASE LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS)
TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRUGS
USE OF NITRATE MEDICATION (NITROGLYCERINE)
YES ANNUAL YES YES ANNUAL YES YES ANNUAL YES HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS EYE IRRITATION CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS
SHORTNESS OF BREATH
YES ANNUAL YES
ANNUAL YES LIVER DISEASE YES ANNUAL YES PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS YES ANNUAL YES IN HANDS OR FEET WORK HISTORY OF: EXP TO SKIN IRRITANTS YES ANNUAL YES EXP TO RESPIRATORY IRRITANTS YES ANNUAL YES YES ANNUAL YES EXP TO CARCINOGENS YES ANNUAL YES EXP TO METHYLENE CHLORIDE, DICHLOROMETHANE, METHYLENE DICHLORIDE FAMILY HISTORY OF: CANCERS (LEUKEMIA, TUMORS) YES ANNUAL YES HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE

YES ANNUAL YES
ANNUAL YES

YES ANNUAL YES

EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
LABORATORY-		ODIC	1122111
HEMATOLOGY:			
HEMATOCRIT (HCT)	YES	NO	NO
SERUM CHEMISTRY:			
LIVER PROFILE TO INCLUDE:			
SGOT (AST), TOTAL BILIRUBIN, ALK. PHOS	YES	NO	YES
CHOLESTEROL	YES	NO	NO
CARDIOLOGY-			
ELECTROCARDIOGRAM	YES	_	NO
COMMENTS ON LABORATORY RESULTS:	YES	***	YES
DANGE GAL FRANCISCO.			
PHYSICAL EXAMINATION: VITAL SIGNS	YES	***	YES
SPECIAL ATTENTION IN EXAMINATION TO:	IES		IES
CENTRAL NERVOUS SYSTEM	YES	***	YES
CARDIOVASCULAR SYSTEM	YES	***	YES
EYES	YES	***	YES
LIVER	YES	***	YES
RESPIRATORY SYSTEM	YES	***	YES
SKIN (RASH, EROSION, ULCER, PIGMENT, ECZEMA, ETC)	YES	***	YES
OTHER APPROPRIATE EXAMINATION (SPECIFY)	YES	***	YES
COMMENTS ON PHYSICAL EXAMINATION:	YES	***	YES
SPECIAL NOTATIONS:	ZZEI CI	***	ZZEI CI
SUBSTANCE(S) SUSPECTED HUMAN CARCINOGEN	YES	***	YES
PHYSICIAN'S WRITTEN OPINION REQUIRED	YES	***	YES
IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW	YES	***	YES
ARE ANY ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS	YES	***	YES
LISTED BELOW	יוניב		1110
RECOMMENDATIONS:	YES	***	YES

Termination examination shall be done when an employee is terminated, or on reassignment to an area where exposure is consistently at or below the action level (AL) and short term exposure limit (STEL), <u>if six months or more have elapsed since the last medical evaluation.</u> See Appendix B of OSHA Standard for guidance on labs.

A sample Physician's Written Opinion can be found in Appendix E. REFERENCES: (1); (2); (3); (4); (5); (OTHER); 1. 29 CFR Parts 1910.1052, 1915 and 1926, Occupational Exposure to Methylene Chloride. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

Affected employees: Employees who are, or may be exposed to methylene chloride as follows:

- (1) At or above the AL on 30 or more days a year, or above the 8-hour PEL or STEL on 10 or more days per year:
- (2) Above the 8hr-TWA, PEL or STEL for any time period where an employee has been identified by a physician or other licensed health care professional as being at risk from cardiac disease or from some other serious methylene chloride-related health condition, and such employee requests inclusion in the medical surveillance program;
- (3) During an emergency. (NOTE: When the employee has been exposed to methylene chloride in emergency situations, the content of emergency medical surveillance is discussed in 29 CFR 1910.)

End of shift carboxyhemoglobin may be determined periodically, and any level above 3% for non-smokers and above 10% for smokers should prompt an investigation of the worker and his/her workplace.

\*\*\*The employer shall update the medical and work history for each affected employee annually. The employer shall provide periodic physical examinations, including appropriate laboratory surveillance, as follows:

#### \*\*\*FREQUENCY OF EXAMINATION

AGE	FREQUENCY
< 45 yrs	Tri-ennial
45 yrs and >	Annual

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# 213 4,4'-METHYLENEDIANILINE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # 4,4'-DIAMINODIPHENYLMETHANE BY5425000 101-77-9

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1050

EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVE	R HAD?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HIST	ORY CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY		YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY		YES	ANNUAL	YES
CANCER		YES	ANNUAL	YES
BACK INJURY		YES	ANNUAL	YES
	NKS PER WEEK	YES	ANNUAL	YES
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PA		YES	_	
	PRESSURE, OR STROKE			
CURRENT MEDICATION USE (PR	ESCRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES		YES	ANNUAL	
ANY REPRODUCTIVE HEALTH CO.	NCERNS	YES	ANNUAL	YES
SKIN DISEASE		YES		
HEPATITIS OR JAUNDICE		YES	ANNUAL	
TREATMENT WITH STEROIDS OR	CANCER (CYTOTOXIC) DRUGS	YES	ANNUAL	
USE OF BARBITURATES		YES	ANNUAL	YES
CHRONIC ABDOMINAL PAIN, VO	MITING, OTHER GI SYMPTOMS	YES	ANNUAL	YES
LIVER DISEASE		YES	_	
KIDNEY DISEASE		YES		YES
PROBLEMS WITH URINATION/BL		YES		
CURRENT PREGNANCY (SELF OR		YES	ANNUAL	
IMPOTENCE OR SEXUAL DYSFUN		YES		YES
INFERTILITY OR MISCARRIAGE	(SELF OR SPOUSE)	YES	ANNUAL	YES
WORK HISTORY OF:				
EXP TO CHEMOTHERAPEUTIC/AN	TINEOPLASTIC AGENTS	YES	ANNUAL	YES
EXP TO CARCINOGENS		YES	ANNUAL	YES
FAMILY HISTORY OF:				
CANCERS (LEUKEMIA, TUMORS)		YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	YES
LABORATORY- SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI.		YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
BUN AND CREATININE URINALYSIS: ROUTINE:			YES	ANNUAL	YES
URINALYSIS WITHOUT MICROSCO	PIC		YES	ANNUAL	YES
COMMENTS ON LABORATORY RESULTS:			YES	ANNUAL	YES
PHYSICAL EXAMINATION:					
VITAL SIGNS			YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION	N TO:				
EYES			YES	ANNUAL	YES
ABDOMEN			YES	ANNUAL	YES
GENITOURINARY TRACT			YES	ANNUAL	YES
LIVER			YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER, P	IGMENT, ECZEMA, E	ETC)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (	SPECIFY)		YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:			YES	ANNUAL	YES
SPECIAL NOTATIONS:					
SUBSTANCE(S) SUSPECTED HUMAN CA	RCINOGEN		YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WI			YES	ANNUAL	
ARE ANY ABNORMALITIES RELATED TO :	EXPOSURES/OCCUPAT	TIONS	YES	ANNUAL	YES
RECOMMENDATIONS:			YES	ANNUAL	YES

REFERENCES: (5); (OTHER); 1. 29 CFR 1910.1050; 2. Aitio, Antero, M.D., Ph.D., Biologic Monitoring, p 178-179; 3. Cocker, J., Assessment of occupational exposure to 4,4'-diaminodiphenylmethane (methylene dianiline) by gas chromatography-mass spectrometry analysis of urine, British Journal of Industrial Medicine, 1986;43:620-625; 4. Hathaway, Gloria J. Ph.D., and J.P. Hughes, M.D., Supplements to Chemical Hazards of the Workplace, 2nd ed., Volume 1, Number 5. NEW PROGRAM 10/97.

# 170 ALPHA-NAPHTHYLAMINE

NIOSH # CAS # QM1400000 134-32-7 STRESSOR(S) IN THIS PROGRAM: ALPHA-NAPHTHYLAMINE

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1003				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?	?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY CU	JRRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY		YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY		YES	ANNUAL	
CANCER		YES	ANNUAL	
BACK INJURY		YES	ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS PH (BEER, WINE, LIQUOR)	CR WEEK	YES	ANNUAL	
HAVE YOU EVER SMOKED		YES	ANNUAL	
DO YOU CURRENTLY SMOKE (PACKS/DA		YES	ANNUAL	
HEART DISEASE, HIGH BLOOD PRESSU			ANNUAL	
CURRENT MEDICATION USE (PRESCRIE	PTION OR OTC)	YES	ANNUAL	
MEDICATION ALLERGIES		YES	ANNUAL	
ANY REPRODUCTIVE HEALTH CONCERNS		YES	ANNUAL	
ALLERGIES (ASTHMA, HAY FEVER, EC	· · · · · · · · · · · · · · · · · · ·	YES	ANNUAL	
TREATMENT WITH STEROIDS OR CANCE	ER (CYTOTOXIC) DRUGS	YES	ANNUAL	
DECREASED IMMUNITY		YES	ANNUAL	
HEADACHE, DIZZINESS, LIGHT-HEADE	EDNESS, WEAKNESS	YES	ANNUAL	
SHORTNESS OF BREATH		YES	ANNUAL	
PROBLEMS WITH URINATION/BLOOD IN		YES	ANNUAL	
CURRENT PREGNANCY (SELF OR SPOUS	SE)	YES	ANNUAL	
IMPOTENCE OR SEXUAL DYSFUNCTION		YES	_	
INFERTILITY OR MISCARRIAGE (SELE	F OR SPOUSE)	YES	ANNUAL	YES
FAMILY HISTORY OF:				
GENETIC DISEASE (INCLUDING CHILI	OPEN)	YES	ANNUAL	VFC
CANCERS (LEUKEMIA, TUMORS)	SICEIV )	YES	ANNUAL	
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	
COMMENTS ON MEDICAL HISTORY		180	MINOAL	1110
LABORATORY- URINALYSIS- ROUTINE:				
URINALYSIS WITH MICROSCOPIC		YES	ANNUAL	YES
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION	1 TO:			
IMMUNOCOMPETENCE (LYMPHATIC SY	(STEM)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (S	SPECIFY)	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) SUSPECTED HUMAN CAR	CINOGEN	YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OPINION REQU		YES	ANNUAL	
IS SURVEILLANCE/PPE CONSISTENT WIT	TH EXPOSURES LISTED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO E	EXPOSURES/OCCUPATIONS	YES	ANNUAL	YES
LISTED BELOW				
RECOMMENDATIONS		YES	ANNUAL	YES

REFERENCES: (1); (2); (5); (OTHER) 1. 29 CFR 1910.1003; 2. Occupational Safety and Health Guidelines for Chemical Hazards, DHHS (NIOSH) Pub. No. 89-104, Supplement II-OHG 1988; 3. IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987. Former standard 29 CFR 1910.1004. PROGRAM REVISED 10/97.

# 171 BETA-NAPHTHYLAMINE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # BETA-NAPHTHYLAMINE QM2100000 91-59-8

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1003

Obini bilindind 25 cin 1910.1005				
EXAM ELEMENT	ELEMENT GIVEN FOR:			TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HA	AD?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY		YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY		YES	ANNUAL	YES
CANCER		YES	ANNUAL	YES
BACK INJURY		YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS (BEER, WINE, LIQUOR)	PER WEEK	YES	ANNUAL	YES
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS)		YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRES	SSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCH	RIPTION OR OTC)			
MEDICATION ALLERGIES		YES	_	
ANY REPRODUCTIVE HEALTH CONCER		YES	_	
ALLERGIES (ASTHMA, HAY FEVER,	•	YES	_	
TREATMENT WITH STEROIDS OR CAN	NCER (CYTOTOXIC) DRUGS	YES	ANNUAL	YES
DECREASED IMMUNITY		YES	ANNUAL	
PROBLEMS WITH URINATION/BLOOD		YES	ANNUAL	
CURRENT PREGNANCY (SELF OR SPO	•	YES	ANNUAL	
IMPOTENCE OR SEXUAL DYSFUNCTION		YES	_	
INFERTILITY OR MISCARRIAGE (S	ELF OR SPOUSE)	YES	ANNUAL	YES
FAMILY HISTORY OF:				
GENETIC DISEASE (INCLUDING CHECANCERS (LEUKEMIA, TUMORS)	ILDREN)	YES	_	
		YES	_	
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	YES
LABORATORY-				
URINALYSIS:				
ROUTINE:		VID C	7	VID C
URINALYSIS WITH MICROSCOPIC		YES	_	
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT (	GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:						
VITAL SIGNS	<b></b>			YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION IMMUNOCOMPETENCE (LYMPHATIC SYS				YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (SP	•			YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:	•			YES	ANNUAL	YES
SPECIAL NOTATIONS:						
SUBSTANCE(S) KNOWN HUMAN CARCINOG	EN			YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OPINION REQUI	RED			YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH	EXPOSIBES	S LIST	TED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO EX				YES	ANNUAL	YES
LISTED BELOW						
RECOMMENDATIONS:				YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (OTHER) 29 CFR 1910.1003. Former standard 29 CFR 1910.1009. PROGRAM REVISED 10/97.

#### 172 NICKEL (INORGANIC) STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # QR5950000 7440-02-0 NICKEL (METAL) QR5950000 7440-02-0 NICKEL (SOLUBLE COMPOUNDS) QR6240000 65485-96-1 NICKEL CARBONATE QR7040000 12054-48-7 NICKEL II HYDROXIDE QR8400000 1913-99-1 NICKEL II OXIDE OR9800000 12035-72-2 NICKEL SUBSULFIDE PROGRAM FREQUENCY: ANNUAL EXAM ELEMENT ELEMENT GIVEN FOR: BASE PERI TERM LINE ODIC EXAM MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) YES ANNUAL YES MAJOR ILLNESS OR INJURY YES ANNUAL YES YES ANNUAL YES HOSPITALIZATION OR SURGERY YES ANNUAL YES CANCER YES ANNUAL YES BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PER WEEK YES ANNUAL YES (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED YES ANNUAL YES YES ANNUAL YES DO YOU CURRENTLY SMOKE (PACKS/DAY) YES ANNUAL YES HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC) YES ANNUAL YES MEDICATION ALLERGIES YES ANNUAL YES ANY REPRODUCTIVE HEALTH CONCERNS YES ANNUAL YES YES ANNUAL YES ALLERGIES (ASTHMA, HAY FEVER, ECZEMA) YES ANNUAL YES SKIN DISEASE LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS) YES ANNUAL YES TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRUGS) YES ANNUAL YES WORK HISTORY OF: EXP TO SKIN IRRITANTS YES ANNUAL YES EXP TO RESPIRATORY IRRITANTS ANNUAL YES YES FAMILY HISTORY OF: CANCERS (LEUKEMIA, TUMORS) YES ANNUAL YES COMMENTS ON MEDICAL HISTORY: YES ANNUAL YES LABORATORY-RADIOLOGY-CHEST X-RAY (PA) YES NO YES COMMENTS ON LABORATORY RESULTS: YES NO YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:	YES	ANNUAL	YES
NASAL MUCOSA (SEPTAL PERFORATI	ON)	YES	ANNUAL	YES
RESPIRATORY SYSTEM	,	YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER, PI	GMENT, ECZEMA, ETC)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (S	PECIFY)	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	YES
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CAR	CINOGEN	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW ARE ANY ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS LISTED BELOW		YES YES	ANNUAL ANNUAL	
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (4); (5); (OTHER); 1. NIOSH-OSHA, Occupational Guidelines for Nickel Metal and Soluble Nickel Compounds, Washington, DC. DHHS/DOL: 1978: 1-7; 2. National Research Council, Nickel: Medical and Biologic Effects of Environmental Pollutants, Washington, DC: National Academy of Sciences: 1975; 97-128. PROGRAM REVISED 10/97.

# 173 NICKEL CARBONYL

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # NICKEL CARBONYL QR6300000 13463-39-3

PROGRAM FREGUENCY: ANNUAL

PROGRAM FREQUENCY: A	ANNUAL			
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE Y	OU EVER HAD?			
PERSONAL HISTORY OF:				
	RE HISTORY CURRENT (OPNAV 5100/15)	YES	ANNUAL	
MAJOR ILLNESS OR INJ		YES	ANNUAL	
HOSPITALIZATION OR S	GURGERY	YES	ANNUAL	YES
CANCER		YES	ANNUAL	
BACK INJURY		YES	ANNUAL	
DO YOU DRINK 6 OR MO (BEER, WINE, LIQUO		YES	ANNUAL	YES
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMO	OKE (PACKS/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH	BLOOD PRESSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION U	JSE (PRESCRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES		YES	ANNUAL	YES
ANY REPRODUCTIVE HEA	ALTH CONCERNS	YES	ANNUAL	YES
LUNG/RESP DISEASE (E	EX:COPD, BRONCHITIS, PNEUMONITIS)	YES	ANNUAL	YES
TREATMENT WITH STERO	DIDS OR CANCER (CYTOTOXIC) DRUGS	YES	ANNUAL	YES
WORK HISTORY OF: EXP TO RESPIRATORY I	RRITANTS	YES	ANNUAL	YES
FAMILY HISTORY OF:				
CANCERS (LEUKEMIA, T	TUMORS)	YES	ANNUAL	YES
COMMENTS ON MEDICAL HIST	CORY:	YES	ANNUAL	YES
LABORATORY- RADIOLOGY-				
CHEST X-RAY (PA)		YES	NO	YES
SPIROMETRY-		110	110	110
SPIROMETRY (FVC, FEV	71. FEV1/FVC)	YES	ANNUAL	YES
COMMENTS ON LABORATORY F		YES	ANNUAL	
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	YES
SPECIAL ATTENTION IN E	EXAMINATION TO:			
NASAL MUCOSA (SEPTAL	PERFORATION)	YES	ANNUAL	YES
RESPIRATORY SYSTEM		YES	ANNUAL	YES
OTHER APPROPRIATE EXAM		YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXA	AMINATION:	YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN	CARCINOGEN	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT ARE ANY ABNORMALITIES RELATED T LISTED BELOW		YES YES	ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (4); (5); (OTHER); 1. NIOSH-OSHA, Occupational Guideline for Nickel Carbonyl, Washington, DC: DHHS/DOL; 1978: 1-5; 2. National Research Council, Nickel: Medical and Biologic Effects of Environmental Pollutants, Washington, DC: National Academy of Sciences: 1975; 97-128. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

Periodic urine nickel measurement has not been correlated with chronic health outcomes; however, urine nickel evaluation may assist the provider in determining if a worker with mild symptoms of nickel carbonyl toxicity would benefit from chelation therapy. Chelation therapy for workers with moderate or severe symptoms of nickel carbonyl toxicity is based on history and should not be delayed awaiting laboratory determination of urine nickel levels.

### 174 NITROGEN OXIDES

 STRESSOR(S) IN THIS PROGRAM:
 NIOSH # CAS #

 NITROGEN DIOXIDE
 QW9800000
 10102-44-0

 NITRIC OXIDE
 QX0525000
 10102-43-9

ALSO SEE NITROUS OXIDE PROGRAM #108

PROGRAM FREQUENCY: ANNUAL			
	GIVEN FOR: BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (	OPNAV 5100/15) YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	_
HOSPITALIZATION OR SURGERY	YES		
CANCER	YES	_	_
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	ANNUAL	
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR	STROKE YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR	OTC) YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	ANNUAL	NO
SKIN DISEASE	YES	ANNUAL	
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS,	•	ANNUAL	_
EYE IRRITATION	YES	ANNUAL	-
CHEST PAIN, ANGINA, HEART ATTACK, PALPI	TATIONS YES	ANNUAL	NO
WORK HISTORY OF:			
EXP TO SKIN IRRITANTS	YES	ANNUAL	NO
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	_
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY-			
RADIOLOGY- CHEST X-RAY (PA)	YES	NO	NO
SPIROMETRY-	IFP	NO	NO
SPIROMETRY (FVC, FEV1, FEV1/FVC)	YES	NO	NO
COMMENTS ON LABORATORY RESULTS:	YES	ANNUAL	
COLUMNIA ON THEORY INTO THE COLUMNIA CO	155	TIMONIA	110

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:		VDC	7	<b>N</b> TO
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:	YES	ANNUAL	NO
CARDIOVASCULAR SYSTEM		YES	ANNUAL	NO
EYES		YES	ANNUAL	NO
TEETH (ACID EROSION)		YES	ANNUAL	NO
RESPIRATORY SYSTEM		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PIG	MENT, ECZEMA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SF	PECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH	EXPOSURES LISTED BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO EX	IPOSURES/OCCUPATIONS	YES	ANNUAL	NO
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (1); (3); (4); (5); (OTHER); NIOSH criteria for a recommended standard...Occupational Exposure to Nitric Acid, DHEW Pub. No. 76-141. PROGRAM REVISED 10/97.

### 175 4-NITROBIPHENYL

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # 4-NITROBIPHENYL DV5600000 92-93-3

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.1003

OSHA STANDARD 29 CFR 1910.1003				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HA	7DS	TITIVE	ODIC	II XX ZAIVI
PERSONAL HISTORY OF:	±D:			
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY	COLUMN SIGO, IS,	YES	ANNUAL	
HOSPITALIZATION OR SURGERY		YES	ANNUAL	
CANCER		YES	ANNUAL	
BACK INJURY		YES	ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS	PER WEEK	YES	ANNUAL	
(BEER, WINE, LIOUOR)				
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS,	/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRES	SSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCI	RIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES		YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCER	RNS	YES	ANNUAL	YES
TREATMENT WITH STEROIDS OR CAI	NCER (CYTOTOXIC) DRUGS	YES	ANNUAL	YES
PROBLEMS WITH URINATION/BLOOD	IN URINE)	YES	ANNUAL	YES
CURRENT PREGNANCY (SELF OR SPO	OUSE)	YES	ANNUAL	YES
FAMILY HISTORY OF:				
GENETIC DISEASE (INCL CHILDRE	1)	YES	ANNUAL	
CANCERS (LEUKEMIA, TUMORS)		YES	ANNUAL	
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	YES
LABORATORY-				
URINALYSIS:				
ROUTINE:	7	YES	7 NTNTT 7 T	VE C
URINALYSIS WITH MICROSCOPIC COMMENTS ON LABORATORY RESULTS:	_	YES YES	ANNUAL ANNUAL	
COMMENTS ON LABORATORY RESULTS.		IFS	AMMUAL	ェロン

EXAM ELEMENT	ELEMENT (	GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:						
VITAL SIGNS	<b>T</b> O -			YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION IMMUNOCOMPETENCE (LYMPHATIC SYS				YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (SP	•			YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:	•			YES	ANNUAL	YES
SPECIAL NOTATIONS:						
SUBSTANCE(S) KNOWN HUMAN CARCINOG	EN			YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OPINION REQUI	RED			YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH	FXPOSURES	S LIST	TED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO EX		-		YES	ANNUAL	YES
LISTED BELOW						
RECOMMENDATIONS:				YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (OTHER); 29 CFR 1910.1003. PROGRAM REVISED 10/97.

### 176 NITROGLYCERINE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # NITROGLYCERIN OX2100000 55-63-0

NITROGLYCERIN	QX2100000	55-63-0	)
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?	TIME	ODIC	EZZAM
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100)	/15) YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY	YES	ANNUAL	NO
CANCER	YES	ANNUAL	NO
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	ANNUAL	NO
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
USE OF NITRATE MEDICATION (NITROGLYCERINE)	YES	ANNUAL	NO
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS	YES	ANNUAL	NO
CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS	YES	ANNUAL	NO
SHORTNESS OF BREATH	YES	ANNUAL	NO
MIGRAINE HEADACHE	YES	ANNUAL	NO
FAMILY HISTORY OF:			
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	
LABORATORY-			
HEMATOLOGY:			
HEMOGLOBIN (HGB)	YES	ANNUAL	NO
HEMATOCRIT (HCT)	YES	ANNUAL	NO
CARDIOLOGY-			
ELECTROCARDIOGRAM	YES	ANNUAL	NO
RADIOLOGY-			
CHEST X-RAY (PA)	YES	_	NO
COMMENTS ON LABORATORY RESULTS:	YES	ANNUAL	NO

EXAM ELEMENT	ELEMENT GIVEN FO	R:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:		YES	ANNUAL	NO
CENTRAL NERVOUS SYSTEM			YES	ANNUAL	NO
CARDIOVASCULAR SYSTEM			YES	ANNUAL	NO
PERIPHERAL VASCULAR SYSTEM (RAY	NAUD'S)		YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SP	ECIFY)		YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:			YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EXLISTED BELOW RECOMMENDATIONS:			YES YES YES	ANNUAL ANNUAL	NO NO

REFERENCES: (1); (2); (3); (4). PROGRAM REVISED 10/97.

# 211 2-NITROPROPANE

STRESSOR(S) IN THIS PROGRAM:

2-NITROPROPANE

79-46-9

2-NITROPROPANE	-	25250000	79-46-	9
PROGRAM FREQUENCY: ANNUAL				
EXAM ELEMENT EL  MEDICAL HISTORY: HAVE YOU EVER HAD?  PERSONAL HISTORY OF:	EMENT GIVEN FOR:	BASE LINE	PERI C	
IS YOUR WORK EXPOSURE HISTORY CURR MAJOR ILLNESS OR INJURY HOSPITALIZATION OR SURGERY CANCER BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PER (BEER, WINE, LIQUOR)		YES YES	ANNUAL	YES YES YES YES YES
HAVE YOU EVER SMOKED DO YOU CURRENTLY SMOKE (PACKS/DAY) HEART DISEASE, HIGH BLOOD PRESSURE CURRENT MEDICATION USE (PRESCRIPTI MEDICATION ALLERGIES ANY REPRODUCTIVE HEALTH CONCERNS HEPATITIS OR JAUNDICE LUNG/RESP DISEASE (EX:COPD, BRONCH COUGH (DRY OR PRODUCTIVE) LIVER DISEASE	ON OR OTC)	YES	ANNUAL	YES YES YES YES YES YES YES YES YES
WORK HISTORY OF:  EXP TO RESPIRATORY IRRITANTS  EXP TO CARCINOGENS  FAMILY HISTORY OF:  CANCERS (LEUKEMIA, TUMORS)  COMMENTS ON MEDICAL HISTORY:		YES YES YES YES	ANNUAL ANNUAL ANNUAL ANNUAL	YES YES
LABORATORY: SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI., ALK. PHO SGOT (AST) RADIOLOGY: CHEST X-RAY (PA) SPIROMETRY: SPIROMETRY (FEV1, FVC, FEV1/FVC)	s.	YES YES YES YES	NO ANNUAL NO NO	YES YES
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT	GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:			YES	ANNUAL	YES
LIVER RESPIRATORY SYSTEM OTHER APPROPRIATE EXAMINATION COMMENTS ON PHYSICAL EXAMINATION:				YES YES YES YES	ANNUAL ANNUAL ANNUAL ANNUAL	YES YES YES YES
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CARO	CINOGEN			YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX				YES YES	ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:				YES	ANNUAL	YES

REFERENCES: (1); (3). PROGRAM REVISED 10/97.

# 177 N-NITROSODIMETHYLAMINE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # N-NITROSODIMETHYLAMINE IQ0525000 62-75-9

PROGRAM FREOUENCY: ANNUAL

PROGRAM FREQUENCY: A	NNUAL			
OSHA STANDARD 29 CFR 1	910.1003			
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE Y	OU EVER HAD?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSUR	E HISTORY CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJ	URY	YES	ANNUAL	YES
HOSPITALIZATION OR S	URGERY	YES	ANNUAL	YES
CANCER		YES	ANNUAL	YES
BACK INJURY		YES	ANNUAL	YES
DO YOU DRINK 6 OR MO		YES	ANNUAL	YES
(BEER, WINE, LIQ	· ·			
HAVE YOU EVER SMOKED		YES	ANNUAL	
DO YOU CURRENTLY SMO		YES	ANNUAL	
	BLOOD PRESSURE, OR STROKE		ANNUAL	
	SE (PRESCRIPTION OR OTC)	YES	ANNUAL	
MEDICATION ALLERGIES		YES	ANNUAL	
ANY REPRODUCTIVE HEA	LTH CONCERNS	YES	ANNUAL	
SKIN DISEASE		YES	ANNUAL	
	IDS OR CANCER (CYTOTOXIC) DRUGS	YES	ANNUAL	
LIVER DISEASE		YES	ANNUAL	
PROBLEMS WITH URINAT	•	YES	ANNUAL	
CURRENT PREGNANCY (S	ELF OR SPOUSE)	YES	ANNUAL	YES
FAMILY HISTORY OF:	THE THE CHILDREN			1700
GENETIC DISEASE (INC		YES	ANNUAL	
CANCERS (LEUKEMIA, T COMMENTS ON MEDICAL HI		YES YES	ANNUAL	
COMMENTS ON MEDICAL HI	SIORY	YES	ANNUAL	YES
LABORATORY-				
SERUM CHEMISTRY:				
LIVER PROFILE TO INC.	LUDE:			
SGOT (AST), TOT. B	ILI., ALK. PHOS.	YES	NO	YES
SGOT (AST)		YES	ANNUAL	YES
URINALYSIS:				
ROUTINE:				
URINALYSIS WITH MI	CROSCOPIC	YES	ANNUAL	YES
COMMENTS ON LABORATORY R	ESULTS:	YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:	YES	ANNUAL	YES
LIVER		YES	ANNUAL	YES
RESPIRATORY SYSTEM		YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER, PIC	GMENT, ECZEMA, ETC)	YES	ANNUAL	YES
IMMUNOCOMPETENCE (LYMPHATIC SYS	STEM)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (S	SPECIFY)	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) SUSPECTED HUMAN CARC	CINOGEN	YES	ANNUAL	YES
PHYSICIAN'S WRITTEN OPINION REQUI	IRED	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX LISTED BELOW		YES YES	ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (OTHER) 29 CFR 1910.1003. Former standard 29 CFR 1910.1016. PROGRAM REVISED 10/97.

180 ORGANOTIN COMPOUNDS			
	NIOSH #	CAS #	
TIN (ORGANIC COMPOUNDS)			_
TRIBUTYLTIN OXIDE	JN8750000	56-35-	9
METHYL TIN MERCAPTIDE	THE C 7 1 0 0 0 0	4240 2	<i>c</i> 2
TRIBUTYLTIN BENZOATE	WH6710000		
DIBUTYLTIN DILAURATE TRIBUTYLTIN FLUORIDE	WH7000000 WH8275000	1003_1	0-4
IKIBOTIBIIN FBOOKIDE	WII0273000	1703 1	.0 1
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT GIVEN FOR:		PERI ODIC	
MEDICAL HISTORY: HAVE YOU EVER HAD?	21112	ODIC	1121211-1
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/	/15) YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY	YES	ANNUAL	NO
CANCER	YES		
BACK INJURY	YES	ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	NO NO
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	
SKIN DISEASE	YES	ANNUAL	
LUNG OR RESP DISEASE (COPD, BRONCHITIS, PNEUMONITIS)		ANNUAL	
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS	YES	ANNUAL	
NAUSEA OR VOMITING	YES	ANNUAL	
CHANGE OR LOSS OF VISION	YES	ANNUAL	
EYE IRRITATION LIVER DISEASE	YES YES	ANNUAL ANNUAL	
PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS	YES		
IN HANDS OR FEET	110	AMMOAL	110
WORK HISTORY OF:			
EXP TO SKIN IRRITANTS	YES	ANNUAL	NO
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	
LABORATORY-			
SERUM CHEMISTRY:			
LIVER PROFILE TO INCLUDE:			
SGOT (AST), TOT. BILI., ALK. PHOS.	YES	NO	NO
SGOT (AST)	YES	ANNUAL	NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
SPIROMETRY: SPIROMETRY (FEV1. FVC, FEV1/FVC OPTOMETRY- VISION SCREEN (VISUAL ACUITY)	)	YES YES	NO ANNUAL	NO NO
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	NO
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	T∩:	YES	ANNUAL	NO
CENTRAL NERVOUS SYSTEM		YES	ANNUAL	NO
EYES		YES	ANNUAL	NO
LIVER		YES	ANNUAL	NO
RESPIRATORY SYSTEM		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PIG	MENT, ECZEMA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SP	ECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EXLISTED BELOW RECOMMENDATIONS:		YES YES YES	ANNUAL ANNUAL	NO NO
RECOMMENDATIONS.		110	7 TIVIN OFALL	110

REFERENCES: (1); (2); (3); (4); (OTHER) NIOSH criteria for a recommended standard...Occupational Exposure to Organotin Compounds, DHEW Pub. No. 77-115. PROGRAM REVISED 10/97.

#### 186 OTTO FUEL II/ OTHER ALKYL NITRATE PROPELLANTS STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # TY6300000 6423-43-4 PROPYLENE GLYCOL DINITRATE KW5600000 628-96-6 ETHYLENE GLYCOL DINITRATE ETHYLHEXYL NITRATE 27247-96-7 PROGRAM FREQUENCY: ANNUAL ELEMENT GIVEN FOR: BASE PERI TERM EXAM ELEMENT LINE ODIC EXAM MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) YES ANNUAL NO MAJOR ILLNESS OR INJURY YES ANNUAL NO HOSPITALIZATION OR SURGERY YES ANNUAL NO YES ANNUAL NO CANCER YES ANNUAL NO BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PER WEEK YES ANNUAL NO (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED YES ANNUAL NO YES ANNUAL NO DO YOU CURRENTLY SMOKE (PACKS/DAY) YES ANNUAL NO YES ANNUAL NO HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC) YES ANNUAL NO MEDICATION ALLERGIES YES ANNUAL NO ANY REPRODUCTIVE HEALTH CONCERNS YES ANNUAL NO SKIN DISEASE USE OF NITRATE MEDICATION (NITROGLYCERINE) YES ANNUAL NO HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS YES ANNUAL NO CHANGE OR LOSS OF VISION YES ANNUAL NO CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS YES ANNUAL NO MIGRAINE HEADACHE YES ANNUAL NO FAMILY HISTORY OF: HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE YES ANNUAL NO COMMENTS ON MEDICAL HISTORY: YES ANNUAL NO LABORATORY-**HEMATOLOGY:** COMPLETE BLOOD COUNT (HGB, HCT, WBC, MCV, MCH, MCHC) YES ANNUAL NΟ CARDIOLOGY-ELECTROCARDIOGRAM YES ANNUAL MO OPTOMETRY-VISION SCREEN (VISUAL ACUITY) YES ANNUAL NO

YES ANNUAL NO

COMMENTS ON LABORATORY RESULTS:

EXAM ELEMENT	ELEMENT G	SIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:						
VITAL SIGNS				YES	ANNUA	L NO
SPECIAL ATTENTION IN EXAMINATION	TO:					
CENTRAL NERVOUS SYSTEM				YES	ANNUA:	L NO
CARDIOVASCULAR SYSTEM				YES	ANNUA:	L NO
EYES				YES	ANNUA:	L NO
LIVER				YES	ANNUA:	L NO
RESPIRATORY SYSTEM				YES	ANNUA:	L NO
SKIN (RASH, EROSION, ULCER, PIG	GMENT, ECZE	MA, I	ETC)	YES	ANNUA:	L NO
OTHER APPROPRIATE EXAMINATION (SE	PECIFY)			YES	ANNUA	L NO
COMMENTS ON PHYSICAL EXAMINATION:				YES	ANNUA	L NO
IS SURVEILLANCE/PPE CONSISTENT WITH	H EXPOSURES	LIST	TED BELOW	YES	ANNUA	L NO
ARE ANY ABNORMALITIES RELATED TO EX	KPOSURES/OC	CUPA	rions	YES	ANNUA:	L NO
LISTED BELOW RECOMMENDATIONS:				YES	ANNUA	L NO

REFERENCE: (OTHER); 1. NAVMEDCOMINST 6270.1, 19 MAR 85, HEALTH HAZARDS OF OTTO FUEL II; 2. CHIEF BUMED ltr 5100, Ser 242/4U763715 of 2 Feb 94; 3. Jones RA., Strickland, JA., Siegel J. Toxicity of propylene 1,2-dinitrate in experimental animals, Toxicology and Applied Pharmacology, 1972;22:128-137; 4. NAVENVIRHLTHCEN ltr 6260 Ser 3213mt/04449 of 27 Apr 90. PROGRAM REVISED 10/97.

184 POLYCHLORINATED BIPHENYLS (PCB)			
CHLORODIPHENYL (42% CHLORINE)  CHLORODIPHENYL (54% CHLORINE)  AROCLOR 1260  AROCLOR 1254  KANECHLOR 500  TG  TG	TOSH # Q1356000 72063000 Q1362000 Q1360000	53469-2 27323-8 11906-8 11097-6	8-8 82-5 59-1
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15 MAJOR ILLNESS OR INJURY HOSPITALIZATION OR SURGERY CANCER BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES YES YES YES YES YES YES	-	NO NO NO
(BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED DO YOU CURRENTLY SMOKE (PACKS/DAY) HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC) MEDICATION ALLERGIES ANY REPRODUCTIVE HEALTH CONCERNS SKIN DISEASE HEPATITIS OR JAUNDICE LIVER DISEASE	YES	ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL	NO NO NO NO NO NO
WORK HISTORY OF: EXP TO SKIN IRRITANTS COMMENTS ON MEDICAL HISTORY:	YES YES	ANNUAL ANNUAL	
LABORATORY- SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE: SGOT (AST), TOT.BILI., ALK. PHOS. SGOT (AST) TRIGLYCERIDES COMMENTS ON LABORATORY RESULTS:	YES YES YES YES	NO ANNUAL ANNUAL ANNUAL	NO NO NO
PHYSICAL EXAMINATION: VITAL SIGNS	YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION TO: LIVER SKIN (RASH, EROSION, ULCER, PIGMENT, ECZEMA, ETC)	YES YES	ANNUAL ANNUAL	NO NO

EXAM ELEMENT	ELEMENT GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
OTHER APPROPRIATE EXAMINATION (SP COMMENTS ON PHYSICAL EXAMINATION: IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX LISTED BELOW RECOMMENDATIONS:	EXPOSURES LIS		YES YES YES YES	ANNUAL ANNUAL ANNUAL ANNUAL	NO NO NO

Placement on medical surveillance program is for personnel exposed to PCB's above the medical surveillance action level. These levels are based on airborne concentrations of PCB's. There is no current required medical surveillance based on skin contact alone but those workers with reasonable possibility of regular skin contact should also be considered for medical surveillance. REFERENCES: (1); (2); (3); (4); (OTHER); 1. NIOSH criteria for a recommended standard...Occupational Exposure to Polychlorinated Biphenyls, DHEW Pub. No. 77-225; 2. NIOSH Current Intelligence Bulletin 45, Feb 24, 1986; 3. NAVENVIRHLTHCEN letter 6263.1 Ser 09nd/11643m 30 Nov 89, ADVISORY ON POLYCHLORINATED BIPHENYLS (PCBs). PROGRAM REVISED 10/97.

# 185 BETA-PROPIOLACTONE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # BETA-PROPIOLACTONE RQ7350000 57-57-8

PROGRAM FREOUENCY: ANNUAL

PROGRAM FREQUENCY: ANNUAL				
OSHA STANDARD 29 CFR 1910.1003				
EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	
MEDICAL HISTORY: HAVE YOU EVER HA	D?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY		YES	ANNUAL	
HOSPITALIZATION OR SURGERY		YES	ANNUAL	YES
CANCER		YES	ANNUAL	YES
BACK INJURY		YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS	PER WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED		YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/	DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRES		YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCR	IPTION OR OTC)	YES		YES
MEDICATION ALLERGIES		YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCER	NS	YES	ANNUAL	YES
SKIN DISEASE		YES	ANNUAL	YES
LUNG/RESP DISEASE (EX:COPD, BR		YES	ANNUAL	YES
TREATMENT WITH STEROIDS OR CAN	ICER (CYTOTOXIC) DRUGS	YES	ANNUAL	YES
WORK HISTORY OF:				
EXP TO CARCINOGENS		YES	ANNUAL	YES
DANTIN HIGHODY OF				
FAMILY HISTORY OF:  GENETIC DISEASE (INCLUDE CHILD	REN)	YES	ANNUAL	YES
CANCER (LEUKEMIA, TUMORS)	icely)	YES		
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	
COMMINIS ON MIDICILL MIDIONI		110	711110711	100
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION	_			
SKIN (RASH, EROSION, ULCER, PI		YES	ANNUAL	
IMMUNOCOMPETENCE (LYMPHATIC SY		YES	ANNUAL	
OTHER APPROPRIATE EXAMINATION (S	PECIFY)	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CAR PHYSICIAN'S WRITTEN OPINION REQU		YES YES	ANNUAL ANNUAL	YES YES
IS SURVEILLANCE/PPE CONSISTENT WIT ARE ANY ABNORMALITIES RELATED TO E LISTED BELOW		YES YES	ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (OTHER); 29 CFR 1910.1003. Former standard 29 CFR 1910.1013. PROGRAM REVISED 10/97.

187 SILICA (CRYSTALLINE)			
STRESSOR(S) IN THIS PROGRAM:	NIOSH #	CAS #	
SILICA CRYSTALLINE CRISTOBALITE	VV7325000	14464-4	6-1
	VV7330000		
SILICA CRYSTALLINE TRIPOLI	VV7335000 VV7336000	1317-95	_9
	VV7320000		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:			ERM
MEDICAL HICEODA: HAVE NOH EVED HAD	LINE	ODIC E	MAX
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100)	(15) YES	7/ NTNTT	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	NO
	·-	ANNUAL	_
HOSPITALIZATION OR SURGERY	YES	ANNUAL	NO
CANCER	YES	_	NO
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	NO
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
LUNG OR RESP DISEASE (COPD, BRONCHITIS, PNEUMONITIS)	·-	ANNUAL	NO
TUBERCULOSIS	YES	ANNUAL	NO
SHORTNESS OF BREATH	YES		NO
	YES	_	NO
COUGH (DRY OR PRODUCTIVE)	YES	ANNUAL	NO
WORK HISTORY OF:	1170	3 3 73 77 7 7	170
EXP TO DUSTS (COAL, BLAST. GRIT, SAND, NUISANCE)	YES	ANNUAL	NO
EXP TO ASBESTOS	YES	ANNUAL	NO
EXP TO SILICA OR SAND	YES	_	NO
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY-			
ADDITIONAL LAB TESTS:			
TUBERCULOSIS SCREEN	YES	ANNUAL	NO
RADIOLOGY-			
CHEST X-RAY (PA)	YES	PENTA-E	NO
SPIROMETRY-			
SPIROMETRY (FVC, FEV1, FEV1/FVC)	YES	ANNUAL	NO
COMMENTS ON LABORATORY RESULTS:	YES	ANNUAL	NO

EXAM ELEMENT	ELEMENT GI	IVEN F	FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:			YES	ANNUA	L NO
RESPIRATORY SYSTEM OTHER APPROPRIATE EXAMINATION (SI COMMENTS ON PHYSICAL EXAMINATION:	PECIFY)			YES YES YES	ANNUA ANNUA ANNUA	L NO
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX LISTED BELOW				YES YES	ANNUA:	
RECOMMENDATIONS:				YES	ANNUA:	L NO

REFERENCES: (1); (2); (3); (4); (OTHER); NIOSH criteria for a recommended standard...Occupational Exposure to Crystalline Silica, DHEW Pub. No. 75-120. PROGRAM REVISED 10/97.

# 189 STYRENE

PROGRAM FREQUENCY: ANNUAL

STRESSOR(S) IN THIS PROGRAM: NIOSH# CAS#

STRESSOR(S) IN THIS PROGRAM: STYRENE		WL3675000	0 100-4	
EXAM ELEMENT	ELEMENT GIVEN FOR		SE PERI NE ODIC	
MEDICAL HISTORY: HAVE YOU EVER H PERSONAL HISTORY OF:	AD?			
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100	/15) YES	S ANNUA	L NO
MAJOR ILLNESS OR INJURY		YES	S ANNUA	L NO
HOSPITALIZATION OR SURGERY		YES	S ANNUA	L NO
CANCER		YES	S ANNUA	L NO
BACK INJURY			S ANNUA	_
DO YOU DRINK 6 OR MORE DRINKS (BEER, WINE, LIQUOR)	PER WEEK	YES	S ANNUA	L NO
HAVE YOU EVER SMOKED		YES	S ANNUA	L NO
DO YOU CURRENTLY SMOKE (PACKS		YES	S ANNUA	L NO
HEART DISEASE, HIGH BLOOD PRE		YES		
CURRENT MEDICATION USE (PRESC	RIPTION OR OTC)	YES	S ANNUA	L NO
MEDICATION ALLERGIES			S ANNUA	_
ANY REPRODUCTIVE HEALTH CONCE	RNS		S ANNUA	L NO
BLOOD DISEASES (ANEMIA)		YES	-	
SKIN DISEASE		YES	-	_
LUNG/RESP DISEASE (EX:COPD, B	•	•	-	_
HEADACHE, DIZZINESS, LIGHT-HE	ADEDNESS, WEAKNESS	YES	S ANNUA	
EYE IRRITATION		YES	S ANNUA	L NO
PROBLEMS WITH NUMBNESS, TINGL IN HANDS OR FEET		YES		-
DEPRESSION, DIFF CONCENTRATIN	G, EXCESSIVE ANXIETY			
PERSONALITY CHANGE		YES	S ANNUA	L NO
WORK HISTORY OF: EXP TO SKIN IRRITANTS		YES	S ANNUA	L NO
EXP TO RESPIRATORY IRRITANTS			S ANNUA	_
EXP TO SOLVENTS (MEK, PERC, T	CE, TOLUENE)		S ANNUA	_
COMMENTS ON MEDICAL HISTORY:	02, 10202,		S ANNUA	_
LABORATORY- SPIROMETRY-				
SPIROMETRY (FEV1, FVC, FEV1/F	VC)	YES	S NO	NO
COMMENTS ON LABORATORY RESULTS:		YES	S NO	NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	ON TO:	YES	ANNUAL	NO
CENTRAL NERVOUS SYSTEM		YES	ANNUAL	NO
PERIPHERAL NERVOUS SYSTEM (ST	RENGTH, SENSATION, DTR)	YES	ANNUAL	NO
EYES		YES	ANNUAL	NO
LIVER		YES	ANNUAL	NO
MUCOUS MEMBRANES		YES	ANNUAL	NO
RESPIRATORY SYSTEM		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, F	PIGMENT, ECZEMA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION	(SPECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WI ARE ANY ABNORMALITIES RELATED TO		YES YES	ANNUAL ANNUAL	NO NO
LISTED BELOW RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (1); (2); (3); (4); (OTHER); NIOSH criteria for a recommended standard...Occupational Exposure to Styrene, DHEW Pub. No. 83-119. PROGRAM REVISED 10/97.

# 190 SULFUR DIOXIDE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # SULFUR DIOXIDE WS4550000 7446-09-5

PROGRAM FREQUENCY: ANNUAL				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM
MEDICAL HISTORY: HAVE YOU EVER HA	D?	TIME	ODIC	EZZAM
PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY	CURRENT (ORNAY E100/1E)	YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	CORRENT (OPNAV 5100/15)	YES	ANNUAL	_
HOSPITALIZATION OR SURGERY		YES	ANNUAL	_
CANCER		YES	ANNUAL	
BACK INJURY		YES	_	_
	DED MERK	YES	ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS (BEER, WINE, LIQUOR)	PER WEEK	IFP		_
HAVE YOU EVER SMOKED DO YOU CURRENTLY SMOKE (PACKS/	DAY)	YES	ANNUAL	ı NO
HEART DISEASE, HIGH BLOOD PRES	SURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCR	IPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES		YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCER	NS	YES	ANNUAL	NO
ALLERGIES (ASTHMA, HAY FEVER,	ECZEMA)	YES	ANNUAL	NO
LUNG OR RESP DISEASE (COPD, BRO	NCHITIS, PNEUMONITIS)	YES	ANNUAL	NO
EYE IRRITATION		YES	ANNUAL	NO
TOOTH OR GUM DISEASE		YES	ANNUAL	NO
WORK HISTORY OF:				
EXP TO RESPIRATORY IRRITANTS		YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	NO
LABORATORY-				
RADIOLOGY-				
CHEST X-RAY (PA)		YES	NO	NO
SPIROMETRY-	· · · · · · · · · · · · · · · · · · ·			
SPIROMETRY (FEV1, FVC, FEV1/FV	C)	YES	_	NO
COMMENTS ON LABORATORY RESULTS:		YES	NO	NO
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION	TO:			
EYES		YES	ANNUAL	NO
TEETH (ACID EROSION)		YES	ANNUAL	NO
MUCOUS MEMBRANES		YES	ANNUAL	NO
RESPIRATORY SYSTEM		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PI	GMENT, ECZEMA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SPE	CIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EXLISTED BELOW		YES YES	ANNUAI ANNUAI	
RECOMMENDATIONS:		YES	ANNUAI	L NO

REFERENCES: (1); (2); (3); (4); (OTHER) NIOSH, criteria for a recommended standard...Occupational Exposure to Sulfur Dioxide. PROGRAM REVISED 10/97.

# 191 1,1,2,2-TETRACHLOROETHANE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # 1,1,2,2-TETRACHLOROETHANE KI8575000 79-34-5

PROGRAM FREOUENCY: ANNUAL

PROGRAM FREQUENCY: ANNUAL				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		
MEDICAL HISTORY: HAVE YOU EVER HAD PERSONAL HISTORY OF:	D?			
IS YOUR WORK EXPOSURE HISTORY (	CURRENT (OPNAV 5100/15)	YES	ANNUAI	_ NO
MAJOR ILLNESS OR INJURY	,	YES	ANNUAL	_ NO
HOSPITALIZATION OR SURGERY		YES	ANNUAL	_ NO
CANCER		YES	ANNUAI	_ NO
BACK INJURY		YES	ANNUAI	_ NO
DO YOU DRINK 6 OR MORE DRINKS 1 (BEER, WINE, LIQUOR)	PER WEEK	YES	ANNUAL	_ NO
HAVE YOU EVER SMOKED		YES	ANNUAI	_ NO
DO YOU CURRENTLY SMOKE (PACKS/		YES	ANNUAI	_ NO
HEART DISEASE, HIGH BLOOD PRES	SURE, OR STROKE	YES	ANNUAI	NO
CURRENT MEDICATION USE (PRESCR:	IPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES		YES		_ NO
ANY REPRODUCTIVE HEALTH CONCERN	NS	YES	ANNUAI	_ NO
SKIN DISEASE		YES	ANNUAL	_ NO
HEADACHE, DIZZINESS, LIGHT-HEAD	DEDNESS, WEAKNESS	YES	ANNUAL	_ NO
NAUSEA OR VOMITING		YES	ANNUAL	_ NO
WEIGHT LOSS		YES	ANNUAI	_ NO
TREMORS		YES	_	_ NO
LIVER DISEASE		YES	ANNUAI	_ NO
PROBLEMS WITH NUMBNESS, TINGLII IN HANDS OR FEET	,	YES	ANNUAI	ı NO
DEPRESSION, DIFFICULTY CONCENT	RATING, EXCESSIVE			
ANXIETY		YES	ANNUAL	ı NO
WORK HISTORY OF:				
EXP TO RESPIRATORY IRRITANTS		YES	ANNUAI	_ NO
EXP TO SOLVENTS (MEK, PERC, TC)	E, TOLUENE)	YES	ANNUAL	_ NO
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	_ NO
LABORATORY-				
SERUM CHEMISTRY:				
LIVER PROFILE TO INCLUDE:	2770.0			
SGOT (AST), TOT.BILI., ALK.	PHOS.		NO	_
SGOT (AST)		YES		
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAI	_ NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:				
VITAL SIGNS	. mo.	YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION	1 10:			
CENTRAL NERVOUS SYSTEM		YES	ANNUAL	NO
PERIPHERAL NERVOUS SYSTEM (ST	RENGTH, SENSATION, DTR)	YES	ANNUAL	NO
LIVER		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PI	GMENT, ECZEMA, ETC.)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (S	SPECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WIT	THE EVEN CHEEK LICTED DELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO E	EXPOSURES/OCCUPATIONS	YES	ANNUAL	NO
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (3); (4); (OTHER); NIOSH criteria for a recommended standard...Occupational Exposure to 1,1,2,2-Tetrachloroethane, DHEW Pub. No. 77-121. PROGRAM REVISED 10/97.

### 192 TETRACHLOROETHYLENE (PERCHLOROETHYLENE)

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # PERCHLOROETHYLENE KX3850000 127-18-4

			_	
PROGRAM FREQUENCY: ANNUAL				
EXAM ELEMENT ELEMEN	T GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY CURRENT	(OPNAV 5100/15)	YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	•	YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY			ANNUAL	NO
CANCER	•	YES	ANNUAL	NO
BACK INJURY	•	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)		YES	ANNUAL	ı NO
HAVE YOU EVER SMOKED	•	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	•	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR	STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION C	R OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	•	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	•	YES	ANNUAL	NO
SKIN DISEASE	•	YES	ANNUAL	NO
HEPATITIS OR JAUNDICE	•	YES	ANNUAL	NO
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS,	WEAKNESS	YES	ANNUAL	NO
NAUSEA OR VOMITING	•	YES	ANNUAL	NO
TREMORS	•		ANNUAL	
CHANGE OR LOSS OF VISION	•	YES	ANNUAL	NO
EYE IRRITATION	•	YES	ANNUAL	NO
LIVER DISEASE	•	YES	ANNUAL	NO
INFERTILITY OR MISCARRIAGE (SELF OR SE	OUSE)	YES	ANNUAL	NO
PROBLEMS WITH NUMBNESS, TINGLING, WEAK IN HANDS OR FEET			ANNUAL	NO
DEPRESSION, DIFFICULTY CONCENTRATING,	EXCESSIVE			
ANXIETY	•	YES	ANNUAL	NO
WORK HISTORY OF: EXP TO SKIN IRRITANTS		YES	ANNUAL	ı NO
		ies YES	_	_
EXP TO SOLVENTS (MEK, PERC, TCE, TOLUE COMMENTS ON MEDICAL HISTORY:			ANNUAL	_
COMMENTS ON MEDICAL HISTORY.		YES	ANNUAL	ı NO
LABORATORY- SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE:				
SGOT (AST), TOT.BILI., ALK. PHOS.		VFC	NO	NO
SGOI (MSI), IOI.DILLI., ALIA. PROS.		THO	MO	NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
BUN AND CREATININE SGOT (AST) COMMENTS ON LABORATORY RESULTS:		YES YES YES	ANNUAL ANNUAL ANNUAL	
PHYSICAL EXAMINATION:				
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:	YES	ANNUAL	NO
CENTRAL NERVOUS SYSTEM		YES	ANNUAL	NO
PERIPHERAL NERVOUS SYSTEM (STRE	NGTH, SENSATION, DTR)	YES	ANNUAL	NO
EYES		YES	ANNUAL	NO
LIVER		YES	ANNUAL	NO
MUCOUS MEMBRANES		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PIG	MENT, ECZEMA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SP	ECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX LISTED BELOW		YES YES	ANNUAL ANNUAL	NO NO
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (1); (2); (3); (4); (OTHER); NIOSH criteria for a recommended standard...Occupational Exposure to Tetrachloroethylene, DHEW Pub. No. 76-185; Brown DP, Kaplan SD, Retrospective Cohort Mortality Study of Dry Cleaner Workers Using Perchloroethylene, Journal of Occupational Medicine 29:53551, 1987; Federal Register FR54:2686-91 29 CFR Part 1910 Air Contaminants, Final rule 19 JAN 89; Key MM et al. (ed.) Occupational Diseases, A Guide to their Recognition, NIOSH 1977, 213-4,448. PROGRAM REVISED 10/97.

# 209 TETRYL

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # TETRYL BY6300000 479-45-8

TETRYL	BY6300000	479-45	-8
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN F	FOR: BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 51	L00/15) YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	
HOSPITALIZATION OR SURGERY	YES	ANNUAL	
CANCER	YES	ANNUAL	NO
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	ANNUAL	NO
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
BLOOD DISEASES (ANEMIA)	YES	ANNUAL	NO
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	ANNUAL	NO
SKIN DISEASE	YES	ANNUAL	NO
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMON	NITIS) YES	ANNUAL	NO
EYE IRRITATION	YES	ANNUAL	NO
LIVER DISEASE	YES	ANNUAL	NO
WORK HISTORY OF:			
EXP TO SKIN IRRITANTS	YES	ANNUAL	NO
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	ı NO
FAMILY HISTORY OF:			
BLOOD DISEASES (ANEMIA)	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY:			
HEMATOLOGY:			
COMPLETE BLOOD COUNT (HGB, HCT, WBC, MCV, MCH,	MCHC) YES	ANNUAL	NO
SERUM CHEMISTRY:			
LIVER PROFILE TO INCLUDE:			
SGOT (AST), TOT. BILI., ALK. PHOS.	YES	NO	NO
SGOT (AST)	YES	ANNUAL	NO
SPIROMETRY:			
SPIROMETRY (FVC, FEV1, FEV1/FVC)	YES	NO	NO
COMMENTS ON LABORATORY RESULTS:	YES	ANNUAL	ı NO

EXAM ELEMENT	ELEMENT GI	IVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS			YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION	TO:				
EYES			YES	ANNUAL	NO
LIVER			YES	ANNUAL	NO
MUCOUS MEMBRANES			YES	ANNUAL	NO
RESPIRATORY SYSTEM			YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PIG	GMENT, ECZEM	MA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SP	PECIFY)		YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:			YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH				ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO EXLISTED BELOW	KPOSURES/OCC	CUPATIONS	YES	ANNUAL	NO
RECOMMENDATIONS:			YES	ANNUAL	NO

REFERENCES: (3). PROGRAM REVISED 10/97.

# 214 ORTHO-TOLIDINE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # DD1225000 119-93-7

PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY	YES	ANNUAL	
HOSPITALIZATION OR SURGERY	YES	ANNUAL	YES
CANCER	YES	ANNUAL	YES
BACK INJURY	YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	YES
HAVE YOU EVER SMOKED	YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES	YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	YES
SKIN DISEASE	YES	ANNUAL	YES
KIDNEY DISEASE	YES	ANNUAL	YES
PROBLEMS WITH URINATION/BLOOD IN URINE	YES	ANNUAL	YES
WORK HISTORY OF:			
EXP TO CHEMOTHERAPEUTIC/ANTINEOPLASTIC AGENTS	YES	ANNUAL	YES
EXP TO SKIN IRRITANTS	YES	ANNUAL	YES
EXP TO CARCINOGENS	YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	YES
LABORATORY-			
URINALYSIS:			
ROUTINE:			
URINALYSIS WITH MICROSCOPIC	YES	ANNUAL	
COMMENTS ON LABORATORY RESULTS:	YES	ANNUAL	YES
PHYSICAL EXAMINATION:			
VITAL SIGNS	YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION TO:			
SKIN (RASH, EROSION, ULCER, PIGMENT, ECZEMA, ETC)	YES	ANNUAL	
OTHER APPROPRIATE EXAMINATION (SPECIFY)	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:	YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN	CARCINOGEN	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT ARE ANY ABNORMALITIES RELATED T LISTED BELOW		YES YES	ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (OTHER); 1. NIOSH, Criteria for a recommended standard...Occupational exposure to o-Tolidine, DHEW (NIOSH) Pub. No. 78-179; 2. ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices, Fifth Edition, Cincinnati: ACGIH, Inc. 1986. 577. PROGRAM REVISED 10/97.

# 195 TOLUENE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # TOLUENE XS5250000 108-88-3

PROGRAM FREQUENCY: ANNUAL				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE	PERI	TERM
		LINE	ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HA	.D?			
PERSONAL HISTORY OF:	CLIDDENIE /ODNAM E100/15)	VE C	7 NTNTTT 7 T	
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)		_	
MAJOR ILLNESS OR INJURY		YES	ANNUAI	_
HOSPITALIZATION OR SURGERY		YES	ANNUAI	_
CANCER		YES	ANNUAI	_
BACK INJURY	DED MEEK	YES		_
DO YOU DRINK 6 OR MORE DRINKS (BEER, WINE, LIQUOR)	PER WEEK	YES	ANNUAI	L NO
HAVE YOU EVER SMOKED		YES	ANNUAI	L NO
DO YOU CURRENTLY SMOKE (PACKS/		YES	ANNUAI	L NO
HEART DISEASE, HIGH BLOOD PRES	•	YES	ANNUAI	L NO
CURRENT MEDICATION USE (PRESCR	IPTION OR OTC)	YES	ANNUAI	
MEDICATION ALLERGIES		YES	ANNUAI	L NO
ANY REPRODUCTIVE HEALTH CONCER		YES	ANNUAI	_
ALLERGIES (ASTHMA, HAY FEVER,	ECZEMA)		ANNUAI	_
SKIN DISEASE		YES	ANNUAI	L NO
HEADACHE, DIZZINESS, LIGHT-HEA	DEDNESS, WEAKNESS		ANNUAI	_
NAUSEA OR VOMITING			ANNUAI	
EYE IRRITATION			ANNUAI	L NO
PROBLEMS WITH NUMBNESS, TINGLI IN HANDS OR FEET	NG, WEAKNESS	YES	ANNUAI	L NO
MIGRAINE HEADACHE		YES	ANNUAI	L NO
DEPRESSION, DIFF CONCENTRATING	, EXCESSIVE ANXIETY	YES	ANNUAI	L NO
WORK HISTORY OF:				
EXP TO SKIN IRRITANTS		YES	ANNUAI	L NO
EXP TO RESPIRATORY IRRITANTS		YES	ANNUAI	L NO
EXP TO SOLVENTS (MEK, PERC, TO	E, TOLUENE)	YES	ANNUAI	L NO
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAI	L NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAI	L NO
SPECIAL ATTENTION IN EXAMINATION	TO:			
CENTRAL NERVOUS SYSTEM		YES	ANNUAI	_ NO
PERIPHERAL NERVOUS SYSTEM (STRE	NGTH, SENSATION, DTR)	YES	ANNUAI	_ NO
EYES		YES	ANNUAI	_ NO
MUCOUS MEMBRANES		YES	ANNUAI	_ NO
SKIN (RASH, EROSION, ULCER, PIG	MENT, ECZEMA, ETC)	YES	ANNUAI	L NO
OTHER APPROPRIATE EXAMINATION (	SPECIFY)	YES	ANNUAI	_ NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAI	L NO
IS SURVEILLANCE/PPE CONSISTENT WITH	EXPOSURES LISTED BELOW	YES	ANNUAI	_ NO
ARE ANY ABNORMALITIES RELATED TO EX	POSURES/OCCUPATIONS	YES	ANNUAI	L NO
RECOMMENDATIONS:		YES	ANNUAI	L NO

REFERENCES: (1); (2); (3); (OTHER); 1. NIOSH criteria for a recommended standard...Occupational Exposure to Toluene, DHEW Pub. No. (HSM) 7311023; 2. Federal Register FR54:2431-32 19 JAN 89. PROGRAM REVISED 10/97.

# 194 ORTHO-TOLUIDINE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # XU2975000 95-53-4

PROGRAM FREQUENCY: ANNUAL

PROGRAM FREQUENCY. ANNUAL				
EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HA	AD?			
PERSONAL HISTORY OF:	( 5100 (45)			
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)		ANNUAL	
MAJOR ILLNESS OR INJURY		YES	_	
HOSPITALIZATION OR SURGERY		YES	_	
CANCER		YES	_	
BACK INJURY		YES	_	
DO YOU DRINK 6 OR MORE DRINKS	PER WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED		YES	ANNUAL	
DO YOU CURRENTLY SMOKE (PACKS/		YES	ANNUAL	
HEART DISEASE, HIGH BLOOD PRES		YES	ANNUAL	
CURRENT MEDICATION USE (PRESCR	RIPTION OR OTC)	YES	ANNUAL	
MEDICATION ALLERGIES		YES	ANNUAL	
ANY REPRODUCTIVE HEALTH CONCER		YES	ANNUAL	
ALLERGIES (ASTHMA, HAY FEVER,	ECZEMA)	YES	ANNUAL	
SKIN DISEASE		YES	ANNUAL	
LIVER DISEASE		YES	_	
KIDNEY DISEASE		YES	_	YES
PROBLEMS WITH URINATION/BLOOD	IN URINE	YES	ANNUAL	YES
WORK HISTORY OF:				
EXP TO CHEMOTHERAPEUTIC/ANTINE	OPLASTIC AGENTS	YES	ANNUAL	YES
EXP TO SKIN IRRITANTS		YES	ANNUAL	YES
EXP TO CARCINOGENS		YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	YES
LABORATORY-				
SERUM CHEMISTRY:				
LIVER PROFILE TO INCLUDE:				
SGOT (AST), TOTAL BILIRUBIN	, ALK. PHOS.	YES	ANNUAL	YES
URINALYSIS:	,			
ROUTINE:				
URINALYSIS WITH MICROSCOPIC		YES	ANNUAL	YES
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:		YES	ANNUAL	YES
LIVER			YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER, PIG	MENT, ECZEMA,	ETC)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (SP	ECIFY)	,	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:			YES	ANNUAL	YES
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CA	RCINOGEN		YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX			YES YES	ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:			YES	ANNUAL	YES

REFERENCES: (1); (3); (OTHER); 1. FEDERAL REGISTER FR54:12 29 CFR PART 1910 Air Contaminates, Final Rule 2689-90, 19 Jan 89; 2. Occupational Health Guidelines for O-toluidine, DHHS (NIOSH) Publication 81-123. PROGRAM REVISED 10/97.

# 197 1,1,1-TRICHLOROETHANE (METHYL CHLOROFORM)

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # METHYLCHLOROFORM KJ2975000 71-55-6

PROGRAM FREQUENCY: ANNUAL

PROGRAM FREQUENCY: ANNUAL				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HA	AD?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)	YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY		YES		NO
HOSPITALIZATION OR SURGERY		YES		_
CANCER		YES	ANNUAL	
BACK INJURY		YES		
DO YOU DRINK 6 OR MORE DRINKS (BEER, WINE, LIQUOR)	PER WEEK	YES	ANNUAL	NO
HAVE YOU EVER SMOKED		YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS)	•	YES	ANNUAL	
HEART DISEASE, HIGH BLOOD PRES		YES		
CURRENT MEDICATION USE (PRESCI	RIPTION OR OTC)	YES	ANNUAL	
MEDICATION ALLERGIES		YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCER	RNS	YES	ANNUAL	NO
SKIN DISEASE		YES	_	NO
HEPATITIS OR JAUNDICE		YES	ANNUAL	NO
HEADACHE, DIZZINESS, LIGHT-HEA	ADEDNESS, WEAKNESS	YES	ANNUAL	NO
EYE IRRITATION		YES	ANNUAL	NO
CHEST PAIN, ANGINA, HEART ATT	ACK, PALPITATIONS	YES	ANNUAL	NO
LIVER DISEASE		YES	ANNUAL	NO
PROBLEMS WITH BALANCE, COORDIN	NATION, NUMBNESS,			
TINGLING, WEAKNESS		YES	ANNUAL	NO
DEPRESSION, DIFF CONCENTRATING	G, EXCESSIVE ANXIETY	YES	ANNUAL	NO
WORK HISTORY OF:				
EXP TO SKIN IRRITANTS		YES	ANNUAL	NO
EXP TO RESPIRATORY IRRITANTS		YES	ANNUAL	NO
EXP TO SOLVENTS (MEK, PERC, TO	CE, TOLUENE)	YES	ANNUAL	NO
FAMILY HISTORY OF:				
HEART DISEASE, HIGH BLOOD PRES	SSURE, OR STROKE	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	NO
LABORATORY-				
SERUM CHEMISTRY:				
LIVER PROFILE TO INCLUDE:				
SGOT (AST), TOT.BILI., ALK.	PHOS.	YES	NO	NO
SGOT (AST)		YES	ANNUAL	NO

EXAM ELEMENT ELEMENT (	GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
URINALYSIS				
ROUTINE:				
URINALYSIS WITH MICROSCOPIC		YES	NO	NO
CARDIOLOGY: ELECTROCARDIOGRAM		YES	NO	NO
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	NO
COMMENTS ON LABORATORY RESULTS:		IEO	AMMOAL	NO
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION TO:				
CENTRAL NERVOUS SYSTEM		YES	ANNUAL	NO
PERIPHERAL NERVOUS SYSTEM (STRENGTH, SEN	SATION, DTR)	YES	ANNUAL	NO
CARDIOVASCULAR SYSTEM		YES	ANNUAL	NO
EYES		YES	ANNUAL	NO
LIVER		YES	ANNUAL	NO
RESPIRATORY SYSTEM		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PIGMENT, ECZ)	EMA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SPECIFY)		YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES		YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO EXPOSURES/O	CCUPATIONS	YES	ANNUAL	NO
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (3); (OTHER); 1. NIOSH criteria for a recommended standard...Occupational Exposure to 1,1,1-Trichloroethane (Methyl Chloroform) DHEW Pub. No. 76-184; 2. Federal Register FR54:2427 29 CFR Part 1910 Air Contaminants, Final Rule 19 JAN 89; 3. Clayton GD and Clayton FE (ed) Patty's Industrial Hygiene and Toxicology, 3rd Revised Ed. New York: John Wiley & Sons, Inc. 1981, 3502-3510; 4. Key MM et al. (ed) Occupational Diseases, A Guide to their Recognition NIOSH, 1977, 215-216. PROGRAM REVISED 10/97.

# 198 TRICHLOROETHYLENE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # TRICHLOROETHYLENE KX4550000 79-01-6

	1021 1330000	75 01 0	
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR MEDICAL HISTORY: HAVE YOU EVER HAD?		PERI TE ODIC EX	
PERSONAL HISTORY OF:	(15)		
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100)	•	ANNUAL	
MAJOR ILLNESS OR INJURY		ANNUAL	
HOSPITALIZATION OR SURGERY	YES	ANNUAL	
CANCER	YES	ANNUAL	YES
BACK INJURY	YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	YES
HAVE YOU EVER SMOKED	YES	ANNUAL	
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES	YES	ANNUAL	
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	YES
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	ANNUAL	YES
SKIN DISEASE	YES	ANNUAL	YES
HEPATITIS OR JAUNDICE	YES	ANNUAL	
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONIT	IS) YES	ANNUAL	YES
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS	YES	ANNUAL	
NAUSEA OR VOMITING	YES	ANNUAL	
CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS		ANNUAL	
LIVER DISEASE	YES	ANNUAL	
KIDNEY DISEASE		ANNUAL	
PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS	YES	ANNUAL	
IN HANDS OR FEET	125	1111101111	110
WORK HISTORY OF:			
EXP TO SKIN IRRITANTS	YES	ANNUAL	VFC
EXP TO SKIN IRKITANTS EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	
EXP TO CARCINOGENS	YES	ANNUAL	
EXP TO CARCINOGENS  EXP TO SOLVENTS (MEK, PERC, TCE, TOLUENE)		ANNUAL	
EAR TO SOLIVENTS (MER, PERC, ICE, TOLIDENE)	150	MINIMALI	TEO
FAMILY HISTORY OF:			
CANCERS (LEUKEMIA, TUMORS)	YES	ANNUAL	
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE		ANNUAL	
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI T ODIC E	ERM XAM
LABORATORY: SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE:				
SGOT (AST), TOT. BILI., ALK. SGOT (AST) URINALYSIS:	PHOS.		NO ANNUAL	
ROUTINE: URINALYSIS WITH MICROSCOPIC CARDIOLOGY:		YES	ANNUAL	YES
ELECTROCARDIOGRAM COMMENTS ON LABORATORY RESULTS:		YES YES	NO ANNUAL	YES YES
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION CENTRAL NERVOUS SYSTEM PERIPHERAL NERVOUS SYSTEM CARDIOVASCULAR SYSTEM LIVER SKIN (RASH, EROSION, ULCER, PIG- OTHER APPROPRIATE EXAMINATION (SP-	NGTH, SENSATION, DTR) MENT, ECZEMA, ETC)	YES	ANNUAL ANNUAL ANNUAL	YES YES YES YES
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CARC	INOGEN	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX LISTED BELOW		YES YES	ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (1); (2); (3); (4); (OTHER); 1. NIOSH criteria for a recommended standard...Occupational Exposure to Trichloroethylene DHEW Pub. No. 73-11025; 2. NIOSH Current Intelligence Bulletin 20; 3. Federal Register R54:2432-34 29CFR Part 1910 Air Contaminants, Final Rule 19 JAN 89. PROGRAM REVISED 10/97.

# VINYL CHLORIDE 10+ YEARS EXPOSURE (CHLOROETHENE)

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # VINYL CHLORIDE KU9625000 75-01-4

PROGRAM FREQUENCIES: SEMI-ANNUAL

OSHA STANDARD 29 CFR 1910.1017

OBIIA BIANDAND ZO CIN 1910:1017				
EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	
MEDICAL HISTORY: HAVE YOU EVER HAD	?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY C	URRENT (OPNAV 5100/15)	YES	SEMI-A	YES
MAJOR ILLNESS OR INJURY		YES	SEMI-A	YES
HOSPITALIZATION OR SURGERY		YES	SEMI-A	YES
CANCER		YES	SEMI-A	YES
BACK INJURY		YES	SEMI-A	YES
DO YOU DRINK 6 OR MORE DRINKS P (BEER, WINE, LIQUOR)	ER WEEK	YES	SEMI-A	
HAVE YOU EVER SMOKED		YES	SEMI-A	YES
DO YOU CURRENTLY SMOKE (PACKS/D.	AY)	YES	SEMI-A	
HEART DISEASE, HIGH BLOOD PRESS		YES	SEMI-A	YES
CURRENT MEDICATION USE (PRESCRI	PTION OR OTC)	YES	SEMI-A	
MEDICATION ALLERGIES	,	YES	SEMI-A	YES
ANY REPRODUCTIVE HEALTH CONCERN	S	YES	SEMI-A	YES
BLOOD TRANSFUSIONS		YES	SEMI-A	YES
SKIN DISEASE		YES	SEMI-A	YES
PERIPHERAL VASCULAR DISEASE		YES	SEMI-A	YES
HEPATITIS OR JAUNDICE		YES	SEMI-A	YES
LUNG/RESP DISEASE (EX:COPD, BRO	NCHITIS, PNEUMONITIS)	YES	SEMI-A	YES
TREATMENT WITH STEROIDS OR CANC	ER (CYTOTOXIC) DRUGS	YES	SEMI-A	
HEADACHE, DIZZINESS, LIGHT-HEAD		YES	SEMI-A	YES
WEIGHT LOSS		YES	SEMI-A	YES
CHRONIC ABDOMINAL PAIN, VOMITING	G, OTHER GI SYMPTOMS	YES	SEMI-A	YES
LIVER DISEASE		YES	SEMI-A	YES
KIDNEY DISEASE		YES	SEMI-A	YES
WORK HISTORY OF:				
10 OR MORE YEARS SINCE FIRST EX CHLORIDE	POSURE TO VINYL	YES	SEMI-A	YES
EXP TO SOLVENTS (MEK, PERC, TCE	. TOLUENE)	YES	SEMI-A	YES
COMMENTS ON MEDICAL HISTORY:	, 10202112 ,	YES		
			D_111_ 11	
LABORATORY-				
SERUM CHEMISTRY:				
LIVER PROFILE TO INCLUDE:				
SGOT (AST), TOT. BILI., ALK.	PHOS.	YES	SEMI-A	YES

EXAM ELEMENT	ELEMENT (	GIVEN	FOR:		PERI ODIC	TERM EXAM
BUN AND CREATININE GGT RADIOLOGY-				YES YES	SEMI-A SEMI-A	
CHEST X-RAY (PA)				YES	NO	YES
COMMENTS ON LABORATORY RESULTS:				YES	SEMI-A	YES
PHYSICAL EXAMINATION:						
VITAL SIGNS	=0:			YES	SEMI-A	YES
SPECIAL ATTENTION IN EXAMINATION CENTRAL NERVOUS SYSTEM	10:			VEC	SEMI-A	VEC
PERIPHERAL VASCULAR SYSTEM (RAY	(פימוזעות				SEMI-A SEMI-A	
ABDOMEN	NAOD 5)			YES		
LIVER				YES		
SPLEEN					SEMI-A	
RESPIRATORY SYSTEM				YES	SEMI-A	YES
SKIN (RASH, EROSION, ULCER, PIG	MENT, ECZI	EMA, I	ETC)	YES	SEMI-A	YES
OTHER APPROPRIATE EXAMINATION (SP	ECIFY)			YES	SEMI-A	YES
COMMENTS ON PHYSICAL EXAMINATION:				YES	SEMI-A	YES
SPECIAL NOTATIONS:						
SUBSTANCE(S) KNOWN HUMAN CARCINOG	EN			YES	SEMI-A	YES
PHYSICIAN'S WRITTEN OPINION REQUI	RED			YES	SEMI-A	YES
IS SURVEILLANCE/PPE CONSISTENT WITH	EXPOSURES	S LIST	TED BELOW	YES	SEMI-A	YES
ARE ANY ABNORMALITIES RELATED TO EX	POSURES/O	CCUPAT	rions	YES	SEMI-A	YES
RECOMMENDATIONS:				YES	SEMI-A	YES

This program is for anyone employed in vinyl chloride or polyvinyl chloride manufacturing. Abnormal laboratory test results should be repeated as soon as practicable, preferably within 3-4 weeks. If tests remain abnormal, consideration should be given to removal of the employee from contact with vinyl chloride, while a more comprehensive examination is made. REFERENCES; (1); (OTHER); 1. 29 CFR 1910.1017, VINYL CHLORIDE; 2. Vinyl Chloride Toxicity, In: Case Studies in Environmental Medicine, Agency for Toxic Substances and Disease Registry, Scandinavian Journal Work Environmental Health 1988;14:61-78. 13. PROGRAM REVISED 10/97.

# VINYL CHLORIDE ANY EXPOSURE (CHLOROETHENE)

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # VINYL CHLORIDE KU9625000 75-01-4

PROGRAM FREOUENCIES: ANNUAL

PROGRAM FREQUENCIES: ANNUAL			
OSHA STANDARD 29 CFR 1910.1017			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE	PERI	TERM
	LINE	ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/1	.5) YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY	YES	ANNUAL	
HOSPITALIZATION OR SURGERY	YES	ANNUAL	
CANCER	YES	ANNUAL	YES
BACK INJURY	YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	YES
HAVE YOU EVER SMOKED	YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES	YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	YES
BLOOD TRANSFUSIONS	YES	ANNUAL	YES
SKIN DISEASE	YES	ANNUAL	YES
PERIPHERAL VASCULAR DISEASE	YES	ANNUAL	YES
HEPATITIS OR JAUNDICE	YES	ANNUAL	YES
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS	YES	ANNUAL	YES
TREATMENT WITH STEROIDS OR CANCER (CYTOTOXIC) DRUGS	YES	ANNUAL	YES
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS	YES	ANNUAL	YES
WEIGHT LOSS	YES	ANNUAL	YES
CHRONIC ABDOMINAL PAIN, VOMITING, OTHER GI SYMPTOMS	YES	ANNUAL	YES
LIVER DISEASE	YES	ANNUAL	YES
KIDNEY DISEASE	YES	ANNUAL	YES
WORK HISTORY OF:			
	YES	ANNUAL	YES
EXP TO SOLVENTS (MEK, PERC, TCE, TOLUENE)	YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:		ANNUAL	
CONTINUED ON THE POINT HIS CONTINUED ON THE POINT OF THE	110	1111101111	110
LABORATORY- SERUM CHEMISTRY:			
LIVER PROFILE TO INCLUDE:			
SGOT (AST), TOT. BILI., ALK. PHOS.	YES	ANNUAL	YES
BUN AND CREATININE	YES	ANNUAL	YES
GGT	YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
RADIOLOGY- CHEST X-RAY (PA) COMMENTS ON LABORATORY RESULTS:		YES YES	NO ANNUAL	YES YES
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:	YES	ANNUAL	YES
CENTRAL NERVOUS SYSTEM		YES	ANNUAL	YES
PERIPHERAL VASCULAR SYSTEM (RA	YNAUD'S)	YES	ANNUAL	YES
ABDOMEN		YES	ANNUAL	YES
LIVER		YES	ANNUAL	YES
SPLEEN		YES	ANNUAL	YES
RESPIRATORY SYSTEM		YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER, PI	GMENT, ECZEMA, ETC)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (S	PECIFY)	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) KNOWN HUMAN CARCINO		YES		YES
PHYSICIAN'S WRITTEN OPINION REQU	IRED	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WIT ARE ANY ABNORMALITIES RELATED TO E LISTED BELOW		YES YES	ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:		YES	ANNUAL	YES

This program is for anyone employed in vinyl chloride or polyvinyl chloride manufacturing. Abnormal laboratory test results should be repeated as soon as practicable, preferably within 3-4 weeks. If tests remain abnormal, consideration should be given to removal of the employee from contact with vinyl chloride, while a more comprehensive examination is made. REFERENCES; (1); (OTHER); 1. 29 CFR 1910.1017, VINYL CHLORIDE; 2. Vinyl Chloride Toxicity, In: Case Studies in Environmental Medicine, Agency for Toxic Substances and Disease Registry, Scandinavian Journal Work Environmental Health 1988;14:61-78. 13. PROGRAM REVISED 10/97.

# 205 XYLENE

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # XYLENE (O-,M- AND P- ISOMERS) ZE2100000 1330-20-7

XYLENE (O-,M- AND P- ISOMERS)	ZE2100000	1330-2	20-7
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN I		PERI ODIC	
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 53	100/15) YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY	YES	ANNUAL	NO
CANCER	YES	ANNUAL	NO
BACK INJURY	YES		NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES		NO
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)		ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
SKIN DISEASE	YES	ANNUAL	NO
HEPATITIS OR JAUNDICE	YES	ANNUAL	NO
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMON	NITIS) YES	ANNUAL	NO
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS		ANNUAL	NO
NAUSEA OR VOMITING	YES	ANNUAL	NO
LIVER DISEASE	YES	ANNUAL	NO
KIDNEY DISEASE	YES	ANNUAL	NO
PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS IN HANDS OR FEET	YES	ANNUAL	NO
MIGRAINE HEADACHE	YES	ANNUAL	NO
DEPRESSION, DIFF CONCENTRATING, EXCESSIVE ANXIE	ETY YES	ANNUAL	NO
WORK HISTORY OF:			
EXP TO SKIN IRRITANTS	YES	ANNUAL	NO
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	
EXP TO SOLVENTS (MEK, PERC, TCE, TOLUENE)		ANNUAL	
COMMENTS ON MEDICAL HISTORY:	YES		
LABORATORY- SERUM CHEMISTRY: LIVER PROFILE TO INCLUDE:			
SGOT (AST), TOT. BILI., ALK. PHOS.	YES	NO	NO
•	·-		

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
SGOT (AST) URINALYSIS: ROUTINE:		YES	ANNUAL	NO
URINALYSIS WITH MICROSCOPIC COMMENTS ON LABORATORY RESULTS:		YES YES	ANNUAL ANNUAL	_
PHYSICAL EXAMINATION: VITAL SIGNS	то.	YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION CENTRAL NERVOUS SYSTEM PERIPHERAL NERVOUS SYSTEM (STRI		YES YES	ANNUAL ANNUAL	
EYES LIVER MUCOUS MEMBRANES		YES YES YES	ANNUAL ANNUAL ANNUAL	NO
RESPIRATORY SYSTEM SKIN (RASH, EROSION, ULCER, PIC	GMENT, ECZEMA, ETC)	YES	ANNUAL ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SECOMMENTS ON PHYSICAL EXAMINATION:	PECIFY)	YES YES	ANNUAL ANNUAL	
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX		YES YES	ANNUAL ANNUAL	
LISTED BELOW RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (1); (2); (3); (4); (OTHER); 1. NIOSH criteria for a recommended standard...Occupational Exposure to Xylene DHEW Pub. No. 75-168; 2. Key MM et al., (ed.) Occupational Diseases, A guide to Their Recognition, NIOSH, 1977, 243; 3. Federal Register FR 54:2477 29CFR 1910 Air Contaminants, Final Rule 19 JAN 89. PROGRAM REVISED 10/97.

## Physical Stressors Introduction and Changes

Programs in this section which are based on Navy instructions have those references listed in the program description section. Instructions were current at the time this manual was prepared. However, it is incumbent on the individual user to ensure that current instructions are verified and used.

Individuals are placed on these programs based on recommendations from Industrial Hygiene and Safety or requirements by management.

Where there are stringent requirements for documentation using standard forms, those exams are not duplicated in this document.

All new tests are in **bold** letters.

Physical Stressors

Cold
Heat
Noise
Noise Follow-up
Radiation - Ionizing
Radiation - Laser (Class III and IV)
Hand Arm Vibration
Sight Conservation
Whole Body Vibration

# 501 COLD

PROGRAM FREQUENCY: BIENNIAL

EXAM ELEMENT ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:	DINE	ODIC	EZZFIII
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)	YES	BI-ENN	NO
MAJOR ILLNESS OR INJURY	YES	BI-ENN	NO
HOSPITALIZATION OR SURGERY	YES	BI-ENN	NO
CANCER	YES	BI-ENN	NO
BACK INJURY	YES	BI-ENN	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	BI-ENN	NO
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	BI-ENN	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	BI-ENN	NO
DO YOU USE SMOKELESS TOBACCO	YES	BI-ENN	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	BI-ENN	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	BI-ENN	NO
MEDICATION ALLERGIES	YES	BI-ENN	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	BI-ENN	NO
BLOOD DISEASES (ANEMIA)	YES	BI-ENN	NO
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	BI-ENN	NO
SKIN DISEASE	YES	BI-ENN	NO
PERIPHERAL VASCULAR DISEASE	YES	BI-ENN	NO
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS)	YES	BI-ENN	NO
COLD INJURY (FROSTBITE, CHILL, TRENCH FT, HYPOTHERMIA)	YES	BI-ENN	NO
CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS	YES	BI-ENN	NO
THYROID DISEASE (HEAT OR COLD INTOLERANCE)	YES	BI-ENN	NO
DIABETES OR OTHER ENDOCRINE GLAND DISORDER	YES	BI-ENN	NO
MENTAL/EMOTIONAL ILLNESS	YES	BI-ENN	NO
COMMENTS ON MEDICAL HISTORY:	YES	BI-ENN	NO
CARDIOLOGY-			
ELECTROCARDIOGRAM	***	* * *	NO
COMMENTS ON LABORATORY RESULTS:	YES	BI-ENN	NO
PHYSICAL EXAMINATION:			
VITAL SIGNS	YES	BI-ENN	NO
SPECIAL ATTENTION IN EXAMINATION TO:			
CARDIOVASCULAR SYSTEM	YES	BI-ENN	NO
PERIPHERAL VASCULAR SYSTEM (RAYNAUD'S)	YES	BI-ENN	NO
RESPIRATORY SYSTEM	YES	BI-ENN	NO

EXAM ELEMENT ELEMENT GIVEN FOR:	BASE	PERI	TERM
	LINE	ODIC	EXAM
SKIN (RASH, EROSION, ULCER, PIGMENT, ECZEMA, ETC) THYROID OTHER APPROPRIATE EXAMINATION (SPECIFY) COMMENTS ON PHYSICAL EXAMINATION:	YES YES YES YES	BI-ENN BI-ENN BI-ENN	NO NO NO
IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW ARE ANY ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS LISTED BELOW RECOMMENDATIONS:	YES	BI-ENN	NO
	YES	BI-ENN	NO

REFERENCES: (3); (OTHER); 1. Weiner, SC, Barrett JB, Trauma Management for Civilian and Military Physicians, WB Saunders, Phila., 1986; 2. NAVMED P-5052-29 "COLD INJURY"; 3. Threshold Limit Values and Biological Exposure Limits, Cincinnati, OH: American Conference of Government Industrial Hygienists; 1997. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

A worker should be entered on this program if exposed to temperatures below (-)1 degree Centigrade for ten or more days in a quarter or for more than 30 days a year.

The general nutrition status of the individual should be evaluated.

Use of the following medications should be included in the screening;
nitrate medications, barbiturates, tranquilizers, vasoactive drugs, and
diuretics.

\*\*\*An EKG may be indicated in workers when there are cardiovascular risk factors or other indications present.

The ACGIH handbook of Threshold Limit Values states: Employees should be excluded from work in cold at  $(-)1^{\circ}\text{C}$   $(30.2^{\circ}\text{F})$  or below if they are suffering from diseases or taking medication which interferes with normal body temperature regulation or reduces tolerance to work in cold environments. Workers who are routinely exposed to temperatures below  $(-)24^{\circ}\text{C}$   $(-11.2^{\circ}\text{F})$  with wind speeds less than five miles per hour, or air temperatures below  $(-)18^{\circ}\text{C}$   $(0^{\circ}\text{F})$  with wind speeds above five miles per hour, should be medically certified as suitable for such exposures.

Trauma sustained in freezing or subzero conditions requires special attention because an injured worker is predisposed to secondary cold injury. Special provision must be made to prevent hypothermia and secondary freezing of damaged tissues in addition to providing for first aid treatment.

# 502 HEAT

PROGRAM FREQUENCY: ANNUAL

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER H	IADS	TITIVE	ODIC	EAAM
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)	YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY		YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY		YES	ANNUAL	NO
CANCER		YES	ANNUAL	NO
BACK INJURY		YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS	S PER WEEK	YES	ANNUAL	NO
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED		YES	ANNUAL	_
DO YOU CURRENTLY SMOKE (PACKS		YES	ANNUAL	-
HEART DISEASE, HIGH BLOOD PRE		YES	ANNUAL	_
CURRENT MEDICATION USE (PRESC	CRIPTION OR OTC)	YES	ANNUAL	_
MEDICATION ALLERGIES		YES	ANNUAL	
ANY REPRODUCTIVE HEALTH CONCE	IRNS	YES	ANNUAL	
SKIN DISEASE	ON GEDOME	YES	ANNUAL	
HEAT INJURY (CRAMPS, EXHAUSTI		YES YES	ANNUAL	-
EXPOSURE (ACCLIMATIZATION) TO		YES	ANNUAL	
CHEST PAIN, ANGINA, HEART ATT KIDNEY DISEASE	ACK, PALPITATIONS	YES	ANNUAL ANNUAL	
CURRENT PREGNANCY (FEMALES ON	IT V \	YES	ANNUAL	-
INFERTILITY OR MISCARRIAGE (S	•	YES	ANNUAL	-
THYROID DISEASE (HEAT OR COLD	•	YES	ANNUAL	-
DIABETES OR OTHER ENDOCRINE G		YES	ANNUAL	-
MENTAL/EMOTIONAL ILLNESS	JIIII DIBORDIN	YES	ANNUAL	-
		110	1111101111	110
WORK HISTORY OF:				
EXP TO SKIN IRRITANTS		YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	NO
LABORATORY-				
URINALYSIS:				
ROUTINE:				
URINALYSIS WITHOUT MICROSCO	PIC	YES	ANNUAL	NO
CARDIOLOGY-				
ELECTROCARDIOGRAM		***	***	NO
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE	PERI :	TERM
		LINE	ODIC 1	EXAM
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	NO
REQUIRED WHEN POSITIVE HISTOR	Y QUESTIONS ARE OBTAINED	YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINAT	ION TO:			
CARDIOVASCULAR SYSTEM		YES	ANNUAL	NO
RESPIRATORY SYSTEM		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER,	PIGMENT, ECZEMA, ETC)	YES	ANNUAL	NO
SKIN, WITH REGARD TO MALIGN	ANT & PRE-MALIGNANT COND	YES	ANNUAL	NO
THYROID		YES	ANNUAL	NO
OBESITY		YES	ANNUAL	NO
OVERALL PHYSICAL FITNESS		YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION	(SPECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATIO	N:	YES	ANNUAL	NO
TO CURVETUL MORE ARE CONCLUMENTE				370
IS SURVEILLANCE/PPE CONSISTENT		YES	ANNUAL	_
ARE ANY ABNORMALITIES RELATED T	O EXPOSURES/OCCUPATIONS	YES	ANNUAL	NO
RECOMMENDATIONS:		YES	ANNUAL	NO
TCDCOTTIBLIADITE FOLIA		110	2 H VI V O A L	110

REFERENCES: (1); (OTHER); 1. NIOSH Criteria for a Recommended Standard: Occupational Exposure to Hot Environments, Revised Criteria, 1986, DHHS (NIOSH) Pub. No. 86-113; 2. OSHA Instruction TED 1.15, September 22, 1995, Section II: Chapter 4 Heat Stress; 3. Threshold Limit Values and Biological Exposure Limits, Cincinnati, OH: American Conference of Government Industrial Hygienists; 1997. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

 $\tt ***EKG$  may be indicated in workers when there are cardiovascular risk factors or other indications present.

In addition to use of anticholinergic drugs, individuals should be screened for use of other medications including; nitrate medications, tricyclic antidepressants, MAO inhibitors, amphetamines, diuretics and antihistamines.

#### 503 NOISE

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.95

EXAM ELEMENT  MEDICAL HISTORY: HAVE YOU EVER HA	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY RINGING IN THE EAR (TINNITUS) RUPTURED EAR DRUM LOSS OR CHANGE IN HEARING WORK HISTORY OF: EXPOSURE TO EXCESSIVE NOISE COMMENTS ON MEDICAL HISTORY:	CURRENT (OPNAV 5100/15)	YES YES YES YES YES	ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL	YES YES YES
LABORATORY- AUDIOLOGY- AUDIOGRAM COMMENTS ON LABORATORY RESULTS:		YES YES	ANNUAL ANNUAL	
HEARING CONSERVATION:  HAS BASELINE BEEN REESTABLISHED  HIGH FREQUENCY AVERAGE EXCEEDS 4  EAR PLUGS FITTED AND ISSUED?  REFER TO AUDIOLOGIST OR PHYSICIA	5 dB BILATERALLY?	YES YES YES YES	ANNUAL ANNUAL ANNUAL ANNUAL	YES YES
RECOMMENDATIONS:		YES	ANNUAL	YES

#### PROGRAM DESCRIPTION:

Individuals are entered on this program based on the results of industrial hygiene surveys. In the absence of IH data, individuals exposed to sound levels greater than 84 dB(A) or 140 dB peak sound pressure level for impact or impulse noise shall be considered at risk and included in the hearing conservation program. REFERENCES: (OTHER); 1. OPNAV 5100.23D, Chapter 18; 2. OPNAV 5100.19C, Chapter B4; 3. 29 CFR 1910.95; 5. DODINST 6055.12, DoD Hearing Conservation Program, April 22, 1996. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

Tympanogram may be useful in identifying individuals with conductive rather than sensorineural hearing loss.

Individuals with a high-frequency average loss greater than 45 dB bilaterally may have problems with speech discrimination.

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## 512 NOISE - FOLLOW UP

PROGRAM FREQUENCY: BASED ON RESULTS OF ANNUAL MONITORING

OSHA STANDARD 29 CFR 1910.95

EXAM ELEMENT ELE	EMENT GIVEN	FOR:	PERT
	TILLIVI CIVILIV	1 010	ODIC
MEDICAL HISTORY: HAVE YOU EVER HAD?			ODIC
PERSONAL HISTORY OF:			
RINGING IN THE EAR (TINNITUS)			* * *
RUPTURED EAR DRUM			***
LOSS OR CHANGE IN HEARING			* * *
COMMENTS ON MEDICAL HISTORY:			***
LABORATORY-			
AUDIOLOGY-			
AUDIOGRAM - FOLLOW-UP			***
COMMENTS ON LABORATORY RESULTS:			* * *
PHYSICAL EXAMINATION:			
EARS (TYMPANIC MEMBRANES)			* * *
OTHER APPROPRIATE EXAMINATION (SPECIAL	Ϋ́Y )		* * *
COMMENTS ON PHYSICAL EXAMINATION:			* * *
HEARING CONSERVATION:			
HAS BASELINE BEEN REESTABLISHED DUE			* * *
HIGH FREQUENCY AVERAGE EXCEEDS 45 d	1B BILATERA	LLY?	***
EAR PLUGS FITTED AND ISSUED?			***
REFER TO AUDIOLOGIST OR PHYSICIAN?			***
SPECIAL NOTATIONS:			
WRITTEN NOTIFICATION OF PERMANENT THE	RESHOLD SHI	FT	***
REQUIRED			***
RECOMMENDATIONS:			***

#### PROGRAM DESCRIPTION:

\*\*\*This program is designed for follow up when a significant threshold shift (STS), occurs at the monitoring audiogram. REFERENCES: (OTHER);

1. OPNAV 5100.23B, Chapter 18; 2. OPNAV 5100.19B, Chapter B4;

3. 29 CFR 1910.95; 4. DODINST 6055.12, DoD Hearing Conservation Program,
April 22, 1996. PROGRAM REVISED 10/97.

## PROVIDER COMMENTS:

Screening tympanometry can be used to determine if the STS has resulted from middle ear pathology.

Individuals with a high-frequency average loss greater than 45 dB bilaterally may have problems with speech discrimination.

Guidelines for follow-up and referral are contained in the NAVOSH Program Manuals listed in the program description.

A sample format for written notification of permanent threshold shift is in Appendix  ${\tt E.}$ 

## 505 RADIATION - IONIZING

## PROGRAM FREQUENCY:

<25: NONE AFTER PE 25-49: EVERY FIVE YEARS 50-59: EVERY TWO YEARS

>59: ANNUALLY

## PROGRAM DESCRIPTION:

This program is designated solely to provide guidance on scheduling frequency and references. Tests and forms required are promulgated in: (1) Radiation Health Protection Manual, NAVMED P-5055. PROGRAM REVISED 10/97.

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# 506 RADIATION - LASER (CLASS III+IV)

PROGRAM FREQUENCY: TRIENNIAL

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER F	HAD?	LINE	ODIC	EXAM
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)	YES	TRI-ENN	
MAJOR ILLNESS OR INJURY		YES	TRI-ENN	
HOSPITALIZATION OR SURGERY		YES	TRI-ENN	
CANCER		YES	TRI-ENN	
BACK INJURY		YES	TRI-ENN	
DO YOU DRINK 6 OR MORE DRINKS (BEER, WINE, LIQUOR)	S PER WEEK	YES	TRI-ENN	1 YES
HAVE YOU EVER SMOKED		YES	TRI-ENN	
DO YOU CURRENTLY SMOKE (PACKS		YES	TRI-ENN	
HEART DISEASE, HIGH BLOOD PRE CURRENT MEDICATION USE (PRESC	ESSURE, OR STROKE	YES	TRI-ENN	
	CRIPTION OR OTC)	YES	TRI-ENN	
MEDICATION ALLERGIES		YES	TRI-ENN	
ANY REPRODUCTIVE HEALTH CONCE	ERNS	YES	TRI-ENN	
SKIN DISEASE		YES	TRI-ENN	
CHANGE OR LOSS OF VISION		YES	TRI-ENN	
CONTACT LENS USE		YES	TRI-ENN	
LENS SURGERY		YES	TRI-ENN	
PHOTOSENSITIZING MEDICATIONS		YES	TRI-ENN	
UNUSUAL SENSITIVITY TO SUNLIC	SHT	YES	TRI-ENN	
CATARACTS		YES	TRI-ENN	
EYE IRRITATION		YES	TRI-ENN	
EYE INJURY		YES	TRI-ENN	
GLAUCOMA		YES	TRI-ENN	1 YES
WORK HISTORY OF: EXP TO NON-IONIZING RADIATION	J (LASER. TR. MW. HV)	YES	TRI-ENN	1 YES
EYE INJURY	( Liberty Lity IIII ) ov )	YES	TRI-ENN	
COMMENTS ON MEDICAL HISTORY:		YES	TRI-ENN	
LABORATORY-		110	11(1 11(1	<b>.</b> 110
OPTOMETRY- DATE OF MOST RECENT REFRACTION	NI MHEN ADDITCADIE	YES	TRI-ENN	I YES
CURRENT REFRACTION PRESCRIPTI			TRI-ENI	
VISION SCREEN (VISUAL ACUITY)		YES	TRI-ENI	
EXTERNAL OCULAR AND FUNDUS EX		YES	TRI-ENI	
COMMENTS ON LABORATORY RESULTS:	ZULTIVUT TOIA	YES	TRI-ENI	
COLUMENTO ON TABOLATORI RESULTS.		TEO	TVT-FIMI	и тпо

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	N TO:	YES	TRI-ENN	YES
EYES		YES	TRI-ENN	
SKIN (RASH, EROSION, ULCER, P	IGMENT, ECZEMA, ETC)	YES	TRI-ENN	YES
OTHER APPROPRIATE EXAMINATION (	SPECIFY)	YES	TRI-ENN	YES
COMMENTS ON PHYSICAL EXAMINATION:		YES	TRI-ENN	YES
IS SURVEILLANCE/PPE CONSISTENT WI	TH EXPOSURES LISTED BELOW	YES	TRI-ENN	YES
ARE ANY ABNORMALITIES RELATED TO LISTED BELOW	EXPOSURES/OCCUPATIONS	YES	TRI-ENN	YES
RECOMMENDATIONS:		YES	TRI-ENN	YES

This program has a frequency of 36 months (tri-ennial) to identify effects of acute exposures which may not be otherwise identified. The baseline is given prior to duty assignment involving Class III or IV lasers and the termination examination is given as soon as practicable upon separation or termination of employment. REFERENCES: (OTHER);

1. NAVMEDCOMINST 6470.2A, Laser Radiation Medical Surveillance Program, 28 MAR 89; 2. ANSI Z136.1 of 1993; 3. OPNAVINST 5100.23D. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

Enrollment in this program is limited to those personnel who are clearly at risk from exposure to laser radiations.

The preplacement examination must be performed before assignment involving risk of exposure to class 3 or 4 lasers. The periodic examination may be combined with a medical examination required for another purpose. If combined with another examination, occular examinations conducted for laser workers should be clearly documented as preplacement, periodic or termination. The termination examination must be completed as soon as practical subsequent to termination of duties involving lasers.

Incidental personnel must have documented in their medical record a visual acuity examination. Incidental personnel are described as those personnel whose work makes it possible, but unlikely, that they will be exposed to sufficient laser energy to damage their eyes.

510	SIGHT	CONSERVATION

PROGRAM FREOUENCY: ANNUAL

PROGRAM FREQUENCY: ANNUAL				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		ΓERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HA PERSONAL HISTORY OF:	D.5			
IS YOUR WORK EXPOSURE HISTORY CHANGE OR LOSS OF VISION CONTACT LENS USE CATARACTS EYE IRRITATION EYE INJURY GLAUCOMA	CURRENT (OPNAV 5100/15)	YES YES YES YES YES YES YES	ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL	NO NO
WORK HISTORY OF: EYE INJURY COMMENTS ON MEDICAL HISTORY:		YES YES	ANNUAL ANNUAL	NO NO
LABORATORY: OPTOMETRY: DATE OF MOST RECENT REFRACTION VISION SCREEN (VISUAL ACUITY) NEAR VISION (WELDERS ONLY) COMMENTS ON LABORATORY RESULTS:		YES YES YES YES	ANNUAL ANNUAL ANNUAL ANNUAL	NO NO NO
IS SURVEILLANCE/PPE CONSISTENT WIT ARE ANY ABNORMALITIES RELATED TO E LISTED BELOW RECOMMENDATIONS:		YES YES YES	ANNUAL ANNUAL	NO NO

#### PROGRAM DESCRIPTION:

REFERENCES: (OTHER); 1. 5 CFR 339 Medical qualifications
Determinations; 2. OPNAVINST 5100.23D; 3. OPNAVINST 5100.19C; 4. OPNAVINST
4790.2F, The Naval Aviation Maintenance Program (NAMP), 1 June 1995; 5.
NAVAIR 01-1A-34, Aeronautical Equipment Welding, 1 October 1987; 6. Vision
Standards and Precision Machinery, Journal of Occupational Medicine, 1989,
31:5-6; PROGRAM REVISED 10/97.

## PROVIDER COMMENTS:

Physical requirements of the individual's job should be reviewed when performing sight screening for certification. Color vision and depth perception testing may be added based on job requirements.

#### NDI Testers

Requirements for Non Destructive Test are included in reference 5 and summarized as:

Prior to selecting candidates for NDI operator training, and annually thereafter, an eye examination by the medical department is required to ensure natural or corrected vision conforms to the following minimums:

- a. At least one eye capable of passing Armed Forces vision tester 20/25 or Jaeqer #2 at 12 inches.
  - b. Color perception ability to pass Falant test.

## Aeronautical Equipment Welding

Qualification for Aeronautical equipment welding are included in reference 6 and summarized as:

It will be accepted that those whose corrected vision in each eye for long distance is better than 20/30 and for 16 inches distance permits reading of Jaeger #2 type will ordinarily satisfy vision needs for welding.

NIOSH # CAS # STRESSOR(S) IN THIS PROGRAM:

HAND-ARM (SEGMENTAL) VIBRATION

PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)	YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	
HOSPITALIZATION OR SURGERY	YES	ANNUAL	
CANCER	YES	ANNUAL	_
BACK INJURY	YES	ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
DO YOU USE SMOKELESS TOBACCO	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
PERIPHERAL VASCULAR DISEASE	YES	ANNUAL	NO
COLD INJURY (FROSTBITE, CHILL, TRENCH FT, HYPOTHERMIA)	YES	ANNUAL	NO
NEUR DISORDER, GAIT CHANGE, PARESTHESIA, COORD LOSS	YES	ANNUAL	NO
DIABETES OR OTHER ENDOCRINE GLAND DISORDER	YES	ANNUAL	
VIBRATION WHITE FINGER DISEASE	YES	ANNUAL	NO
WORK HISTORY OF:			
EXP TO VIBRATION (SEGMENTAL OR WHOLE BODY)	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
PHYSICAL EXAMINATION:			
VITAL SIGNS	YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION TO:			
PERIPHERAL NERVOUS SYSTEM (STRENGTH, SENSATION, DTR)	YES	ANNUAL	
BACK & MUSCULOSKELETAL SYSTEM	YES	ANNUAL	
PERIPHERAL VASCULAR SYSTEM (RAYNAUD'S)	YES	ANNUAL	_
EYES	YES	ANNUAL	
OTHER APPROPRIATE EXAMINATION (SPECIFY)	YES	ANNUAL	
COMMENTS ON PHYSICAL EXAMINATION:	YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS LISTED BELOW	YES	ANNUAL	NO
RECOMMENDATIONS:	YES	ANNUAL	NO

REFERENCES: (1); (OTHER); 1. Criteria for a recommended standard...Occupational Exposure to Hand-Arm Vibration, NIOSH Sept 1989; 2. Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices. ACGIH, current edition. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

Smoking plays a significant role in the development of hand-arm vibration syndrome. Individuals who smoke should be counseled in smoking cessation.

Symptoms of peripheral vascular and neurological disease can be documented using a standard staging system so as to provide a quantitative description of the involvement of the vascular/neurological system. Workers in stage 2 HAVS or above on the Stockholm Workshop classification scale should be considered for removal from exposure until signs and symptoms no longer meet the criteria for stage 1. If HAVS is permitted to progress beyond Stage 2 by the continued use of vibrating tools, the effects can become irreversible. (NIOSH p. 85)

The Stockholm Workshop classification scale for cold-induced peripheral vascular symptoms in the hand-arm vibration syndrome.\*,+

Stage	Description
0	No attacks
1	Occasional attacks that affect only the tips of one or
	more fingers
2	Occasional attacks that affect the distal and middle
	(rarely also proximal) phalanges of one or more fingers
3	Frequent attacks affecting all phalanges of most fingers
4	As in stage 3, with trophic skin changes in the finger tips

The Stockholm Workshop classification scale for sensorineural stages of the hand-arm vibration syndrome.\*,+

Stage	Description
OSN	Exposed to vibration but no symptoms
1SN	Intermittent numbness with or without tingling
2SN	Intermittent or persistent numbness, reduced sensory perception
3SN	Intermittent or persistent numbness, reduced tactile
	discrimination and/or manipulative dexterity

<sup>\*</sup>Adapted from Brammer et al. (1987)

Source: Criteria for a Recommended Standard...Occupational Exposure to Hand-Arm Vibration, National Institute for Occupational Safety and Health, Sept 1989.

<sup>+</sup>The stage is determined separately for each hand.

# 511 WHOLE BODY VIBRATION

PROGRAM FREQUENCY: ANNUAL

2.5			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE		ERM XAM
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15)	YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY	YES	ANNUAL	NO
CANCER	YES	ANNUAL	NO
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	ANNUAL	NO
(BEER, WINE, LIOUOR)			
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
PERIPHERAL VASCULAR DISEASE	YES	ANNUAL	NO
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS	YES	ANNUAL	NO
NAUSEA OR VOMITING	YES	ANNUAL	NO
CHANGE OR LOSS OF VISION	YES	ANNUAL	NO
CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS	YES	ANNUAL	NO
CHRONIC ABDOMINAL PAIN, VOMITING, OTHER GI SYMPTOMS	YES	ANNUAL	NO
KIDNEY DISEASE	YES	ANNUAL	NO
PROBLEMS WITH URINATION/BLOOD IN URINE	YES	ANNUAL	NO
CURRENT PREGNANCY (SELF OR SPOUSE)	YES	ANNUAL	NO
INFERTILITY OR MISCARRIAGE (SELF OR SPOUSE)	YES	ANNUAL	NO
VIBRATION WHITE FINGER DISEASE	YES	ANNUAL	NO
WORK HISTORY OF:			
EXP TO VIBRATION (SEGMENTAL OR WHOLE BODY)	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY:			
URINALYSIS:			
ROUTINE:			
URINALYSIS WITH MICROSCOPIC	YES	ANNUAL	NO
COMMENTS ON LABORATORY RESULTS	YES	ANNUAL	NO
COMPANIE ON INDOCATORI RESULIS	TES	WINTACWTT	NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION	I TO:			
PERIPHERAL NERVOUS SYSTEM (ST	RENGTH, SENSATION, DTR)	YES	ANNUAL	NO
BACK & MUSCULOSKELETAL SYSTEM		YES	ANNUAL	NO
CARDIOVASCULAR SYSTEM		YES	ANNUAL	NO
PERIPHERAL VASCULAR SYSTEM (RA	AYNAUD'S)	YES	ANNUAL	NO
VARICOSE VEINS OF LOWER EXTREM	MITIES	YES	ANNUAL	NO
EYES		YES	ANNUAL	NO
ABDOMEN		YES	ANNUAL	NO
GENITOURINARY TRACT		YES	ANNUAL	NO
HEMORRHOIDS		YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (S	SPECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WIT		YES	ANNUAL	
ARE ANY ABNORMALITIES RELATED TO H	EXPOSURES/OCCUPATIONS	YES	ANNUAL	ı NO
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (1); (OTHER); Seidel H., Heide R., Long-term effects of whole-body vibration; a critical survey of the literature, International Archives of Occupational Environmental Health, 1986:58:1-12. PROGRAM REVISED 10/97.

# Mixed Exposures Introduction and Changes

Mixed exposures were included in a separate section to give guidance for screening individuals who may be exposed to a category of chemicals or whose specific exposure may not be known. For a mixed chemical exposure such as mixes solvents, the worker is generally placed into this program when quantitative data on specific exposures are unknown. In some cases, it may be appropriate to use this program if there are quantitative data showing overexposure to a specific solvent and there is no corresponding matrix program for that solvent.

For example, a spray painter may be exposed to multiple solvents. IH data could demonstrate overexposure to one solvent out of the mixture for which there is no corresponding matrix program. In this case, the toxicity of the specific solvent should be reviewed by an occupational medicine specialist to see if the mixed solvent program needs to be modified. When IH data are available and there is a corresponding matrix program available for that chemical, then workers should be entered in the appropriate program for the specific stressor. Occupational health staff should forward a request for review of a new program to the Matrix Committee (see Appendix D) for any stressor where IH data has indicated an overexposure requiring medical surveillance and no matrix program exists for that stressor.

A new program, Wood Dust was added. Periodicity for cholinesterase screening was revised in program 179, Organophosphate/Carbamate Compounds.

All new tests are printed in **bold** letters.

Mixed Exposures

Acid/Alkali (pH <4.0 or >11.0)
Anesthetic Gases
Animal Associated Diseases
Hazardous Drugs
Herbicides
Manmade Mineral Fibers
Metal Fumes
Metalworking Fluids
Mixed Solvents
Organophosphate/Carbamate Compounds
Wood Dust

601 ACID/ALKALI (PH<4.0/PH>11.0)			
SULFURIC ACID HYDROCHLORIC ACID NITRIC ACID	NIOSH # WS5600000 MW4025000 QU5775000 TB6300000	7664-93 7647-03 7697-3	1-0 7-2
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:  IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/MAJOR ILLNESS OR INJURY HOSPITALIZATION OR SURGERY CANCER BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED DO YOU CURRENTLY SMOKE (PACKS/DAY) HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC) MEDICATION ALLERGIES ANY REPRODUCTIVE HEALTH CONCERNS ALLERGIES (ASTHMA, HAY FEVER, ECZEMA) SKIN DISEASE PERIPHERAL VASCULAR DISEASE LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITI CONTACT LENS USE EYE IRRITATION	YES	ANNUAL	NO N
EYE INJURY TOOTH OR GUM DISEASE COUGH (DRY OR PRODUCTIVE)	YES YES YES	ANNUAL ANNUAL ANNUAL	NO
WORK HISTORY OF:  EXP TO HYDROGEN FLUORIDE OR INORGANIC FLUORIDES  EYE INJURY  EXP TO SKIN IRRITANTS  EXP TO RESPIRATORY IRRITANTS  EXP TO SOLVENTS (MEK, PERC, TCE, TOLUENE)  COMMENTS ON MEDICAL HISTORY:	YES YES YES YES YES	ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL	
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION TO: PERIPHERAL VASCULAR SYSTEM (RAYNAUD'S)	YES YES	ANNUAL ANNUAL	NO NO
LEKTERENAL VASCOLAK SISIEM (KAINAOD S)	150	TATACAT	MO

EXAM ELEMENT	ELEMENT GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
EYES GUMS (E.G. LEAD LINES?) TEETH (ACID EROSION) MUCOUS MEMBRANES RESPIRATORY SYSTEM SKIN (RASH, EROSION, ULCER, PI OTHER APPROPRIATE EXAMINATION (S	•	ETC)	YES YES YES YES YES YES YES	ANNUA ANNUA ANNUA ANNUA ANNUA ANNUA ANNUA	L NO L NO L NO L NO L NO L NO
IS SURVEILLANCE/PPE CONSISTENT WIT ARE ANY ABNORMALITIES RELATED TO E LISTED BELOW RECOMMENDATIONS:			YES YES YES	ANNUA: ANNUA:	L NO

REFERENCES: (3); (4). PROGRAM REVISED 10/97.

# 108 ANESTHETIC GASES

 STRESSOR(S) IN THIS PROGRAM:
 NIOSH # CAS # KH6550000
 CAS # CAS #

PROGRAM FREQUENCY: ANNUAL

PROGRAM FREQUENCY: ANNUAL				
EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY CU	RRENT (OPNAV 5100/15)	YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY		YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY		YES	ANNUAL	YES
CANCER		YES	ANNUAL	YES
BACK INJURY		YES	ANNUAL	YES
BACK INJURY DO YOU DRINK 6 OR MORE DRINKS PE	R WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED			ANNUAL	
DO YOU CURRENTLY SMOKE (PACKS/DA			ANNUAL	
HEART DISEASE, HIGH BLOOD PRESSU			ANNUAL	
CURRENT MEDICATION USE (PRESCRIE	•		ANNUAL	
MEDICATION ALLERGIES			ANNUAL	
ANY REPRODUCTIVE HEALTH CONCERNS			ANNUAL	
HEPATITIS OR JAUNDICE			ANNUAL	
TREATMENT WITH STEROIDS OR CANCE			ANNUAL	
HEADACHE, DIZZINESS, LIGHT-HEADE	DNESS, WEAKNESS		ANNUAL	
LIVER DISEASE			ANNUAL	
KIDNEY DISEASE			ANNUAL	
CURRENT PREGNANCY (SELF OR SPOUS			ANNUAL	
IMPOTENCE OR SEXUAL DYSFUNCTION			ANNUAL	
INFERTILITY OR MISCARRIAGE (SELF			ANNUAL	
EPILEPSY (SEIZURE DISORDER)			ANNUAL	
PROBLEMS WITH NUMBNESS, TINGLING IN HANDS OR FEET	G, WEAKNESS,	YES	ANNUAL	YES
MIGRAINE HEADACHE		YES	ANNUAL	YES
MENTAL/EMOTIONAL ILLNESS			ANNUAL	
DEPRESSION, DIFF CONCENTRATING,			ANNUAL	
PERSONALITY CHANGE			ANNUAL	
WORK HISTORY OF:				
EXP TO CHEMOTHERAPEUTIC AGENTS		YES	ANNUAL	YES
EXP TO ANESTHETIC GASES			ANNUAL	
EXP TO ETHYLENE OXIDE		YES	ANNUAL	YES
EXP TO CARCINOGENS		YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
FAMILY HISTORY OF: BLOOD DISEASES (ANEMIA) GENETIC DISEASE (INCL CHILDRED CANCERS (LEUKEMIA, TUMORS) COMMENTS ON MEDICAL HISTORY:	<b>1</b> 1)	YES YES		YES YES
PHYSICAL EXAMINATION: REQUIRED WHEN POSITIVE HISTORY QUI	ESTIONS ARE OBTAINED:	TTD G		VID C
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	N TO:	YES	* * *	YES
CENTRAL NERVOUS SYSTEM		YES	***	YES
PERIPHERAL NERVOUS SYSTEM (ST	RENGTH, SENSATION, DTR)	YES	* * *	YES
GENITOURINARY TRACT		YES	* * *	YES
TESTES (MALE)		YES	* * *	YES
LIVER		YES	* * *	YES
MUCOUS MEMBRANES		YES	* * *	YES
OTHER APPROPRIATE EXAMINATION (	SPECIFY)	YES	* * *	YES
COMMENTS ON PHYSICAL EXAMINATION:		YES	***	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) SUSPECTED HUMAN CAI	RCINOGEN	YES	ANNUAL	YES
SUBSTANCE(S) SUSPECTED HUMAN MUT EFFECTS		YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WI	TH EXPOSURES LISTED BELOW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO LISTED BELOW	EXPOSURES/OCCUPATIONS	YES	ANNUAL	YES
RECOMMENDATIONS:		YES	ANNUAL	YES

\*\*\*Physical exam elements are given when positive answers on annual history questions are obtained. REFERENCES: (1); (2); (OTHER); 1. NIOSH Criteria For a Recommended Standard...Occupational Exposure to Waste Anesthetic Gases and Vapors. DHEW Publication No. 77-140; 2. Williams, Louise A., REPRODUCTIVE HEALTH HAZARDS IN THE WORKPLACE, J.B. Lippincott Company, Philadelphia, 1988; 3. Greenberg MI, Hamilton RW, Phillips, SD; Occupational, Industrial and Environmental Toxicology, Mosby St. Louis, 1997; 4. Suruda, A, Health Effects of Anesthetic Gases, Occupational Medicine State of the Art Reviews, Vol. 12/No. 4, Oct-Dec 1997, Hanley & Belfus, Inc., Philadelphia. PROGRAM REVISED 10/97.

# 207 ANIMAL ASSOCIATED DISEASE

PROGRAM FREQUENCY: ANNUAL

EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?	TIME	ODIC	EAAM
PERSONAL HISTORY OF:	YES	***	NO
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) MAJOR ILLNESS OR INJURY	YES	***	NO
HOSPITALIZATION OR SURGERY	YES	***	NO
CANCER	YES	***	NO
BACK INJURY	YES		NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES		NO
(BEER, WINE, LIOUOR)			
HAVE YOU EVER SMOKED	YES	***	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	***	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	***	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	***	NO
MEDICATION ALLERGIES	YES	***	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	***	NO
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	***	NO
SKIN DISEASE	YES	***	NO
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS)	YES	***	NO
CURRENT PREGNANCY (SELF OR SPOUSE)	YES	***	NO
COMMENTS ON MEDICAL HISTORY:	YES	***	NO
LABORATORY-			
ADDITIONAL LAB TESTS:			
TUBERCULOSIS SCREEN	YES		NO
COMMENTS ON LABORATORY RESULTS:	YES	***	NO
PHYSICAL EXAMINATION:			
VITAL SIGNS	YES	***	NO
OTHER APPROPRIATE EXAMINATION (SPECIFY)	YES		NO
COMMENTS ON PHYSICAL EXAMINATION:	YES	***	NO
QUALIFICATIONS:			
CURRENT IMMUNIZATIONS	YES	***	NO
IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW		***	NO
ARE ANY ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS LISTED BELOW	YES	***	NO
RECOMMENDATIONS:	YES	***	NO

REFERENCES: (1); (2); (OTHER); 1. Garibaldi R, Janis B, Occupational Infections in Rom, William N, Environmental and Occupational Medicine, 2nd ed, Little Brown, 1992. 2. Riveral JC, Bayer RA, Johnson DK, The NIH animal handlers medical surveillance program. J Occup Med 26(2):115-117, 1984 (Manual revised 1/96). 3. MMWR, 42 (RR-11), July 30, 1993. 4. MMWR, 43 (RR-13) October 28, 1994. PROGRAM REVISED 3/97.

#### PROVIDER COMMENTS:

This surveillance category includes workers in a wide variety of settings with potential exposure to animals which may cause disease. Exposure may involve the direct care of or contact with animals (live or sacrificed) or their living quarters, viable tissues, body fluids or wastes. Exposures include laboratory animals, animal pests, and livestock. Illnesses fall largely into one of two groups: sensitization and infectious. Infectious agents of concern can include anthrax, brucellosis, leptospirosis, ornithosis, Q-fever, toxoplasmosis, rabies, and hantavairus. Because of the variety of potential exposures and the specific nature of their effects, pre-placement and annual medical surveillance elements must be individualized. Placement in this surveillance program should not be driven by job title but by identified exposures, or potential exposures, to specific animal associated disease.

#### General Guidelines:

- a. In addition to exposure-appropriate history, physical examination, and laboratory testing, the worker should be evaluated regarding his/her understanding of the exposures, their potential health effects, and symptoms which should prompt medical attention.
- b. The issue of obtaining and freezing serum from each worker at the time of preplacement examination and periodically thereafter is controversial. The decision to maintain stored serum should be individualized based on exposure, clinical necessity, and published guidance. The recommended protocol for workers exposed to hantavirus, for instance, includes a stored frozen sample.

Examples of individual requirements follow. Local considerations may warrant more comprehensive measures.

	2 . 22
Risk Category I	rodents, rabbits and aquatics
Risk Category 2	cats, dogs, livestock and ferrets
Risk Category 3	nonhuman primates

(For pathology personnel, the highest category of animal examined.)

Test	Category 1	Category 2	Category 3
Tb Screening	В	В	B, Q6mo
Tetanus	B,P	B,P	В, Р
Toxoplasmosis Titer (1)		В	
Rabies Prophylaxis (2)		B,P	
Q Fever Titer (3)		В	
Rubeola (4)			В

B=baseline examination

P=periodic examination

- (1)Women of child-bearing age who are occupationally exposed to cats and/or their waste should be screened for toxoplasmosis and receive appropriate health education regarding the risk of this disease during pregnancy. Effort should be made to arrange temporary job reassignment while a susceptible employee is pregnant.
- (2) Individuals who should receive pre-exposure prophylaxis with human diploid cell rabies vaccine (HDCV) include those who:
  - a. work directly with rabies virus
  - b. have direct contact with animals in quarantine
- c. have exposure to potentially infected animal body organs or perform post-mortem examinations on animals with a history of poorly defined neurological disorders
  - d. have the responsibility for capturing or destroying wild animals
- e. have large animal (category 2) contact where a potential for exposure exists.
- (3) Employees at risk of exposure to Q fever include those with direct contact with Coxiella burnetti and those who handle or use products of parturition (placenta, amniotic fluid, blood or soiled bedding) from infected sheep, goats, or cattle. At the time of the preplacement exam, individual should be assessed for the likelihood of developing chronic sequelae of Q fever should they acquire it, (immunosuppressed individuals and those with valvular or congenital heart valve problems).
- (4) Rubeola immunization or documented evidence of immunity or vaccination.

For guidelines on preplacement requirements and periodic medical surveillance for specific animal exposures, contact the Navy Environmental Health Center or Navy Environmental and Preventive Medicine Unit nearest you.

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# 110 HAZARDOUS DRUGS

STRESSOR(S) IN THIS PROGRAM:

# ANTINEOPLASTIC DRUGS (VINCRISTINE, DACARBAZINE, MITOMYCIN, CYTOSINE ARABINOSIDE, FLUOROURACIL)

PROGRAM FREQUENCY: ANNUAL

EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU	EVER HAD?	TIME	ODIC	EZZANI
PERSONAL HISTORY OF				
	STORY CURRENT (OPNAV 5100/15)		ANNUAL	
MAJOR ILLNESS OR INJURY			ANNUAL	
HOSPITALIZATION OR SURGE	RY		ANNUAL	
CANCER			ANNUAL	
BACK INJURY		YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE D	RINKS PER WEEK	YES	ANNUAL	YES
(BEER, WINE, LIQUOR)		MEG	7 NTNTTT 7 T	VEC
HAVE YOU EVER SMOKED	Dague (Dau)		ANNUAL	
DO YOU CURRENTLY SMOKE (			ANNUAL	
HEART DISEASE, HIGH BLOO	The state of the s		ANNUAL	
CURRENT MEDICATION USE (	PRESCRIPTION OR OTC)		ANNUAL	
MEDICATION ALLERGIES			ANNUAL	
ANY REPRODUCTIVE HEALTH			ANNUAL	
TREATMENT WITH STEROIDS	OR CANCER (CYTOTOXIC) DRUGS	YES	ANNUAL	YES
CHEST PAIN, ANGINA, HEAR	T ATTACK, PALPITATIONS	YES	ANNUAL	YES
LIVER DISEASE		YES	ANNUAL	YES
CURRENT PREGNANCY (SELF	OR SPOUSE)	YES	ANNUAL	YES
	GE (SELF OR SPOUSE)	YES	ANNUAL	YES
WORK HISTORY OF:				
EXP TO CHEMOTHERAPEUTIC/	ANTINEOPLASTIC AGENTS	YES	ANNUAL	YES
EXP TO IONIZING RADIATIO			ANNUAL	YES
EXP TO SKIN IRRITANTS			ANNUAL	
EXP TO CARCINOGENS		YES	ANNUAL	YES
FAMILY HISTORY OF:	G			
GENETIC DISEASE (INCLUDE			ANNUAL	
CANCERS (LEUKEMIA, TUMOR			ANNUAL	
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	YES
LABORATORY-				
HEMATOLOGY:				
COMPLETE BLOOD COUNT (HG	B, HCT, WBC, MCV, MCH, MCHC)	YES	ANNUAL	YES
DIFFERENTIAL WHITE BLOOD	CELL COUNT	YES	ANNUAL	YES
URINALYSIS:				
ROUTINE:				
URINALYSIS WITH MICROS	COPIC	YES	ANNUAL	YES

EXAM ELEMENT	ELEMENT GIVEN FOR	BAS		TERM EXAM
ADDITIONAL LAB TESTS:  PREGNANCY TESTING OR LABORATORY FERTILITY IF REQUESTED BY EMPLO APPROPRIATE BY THE PHYSICIAN		YES	ANNUAL	YES
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	YES
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:	YES	ANNUAL	YES
CARDIOVASCULAR SYSTEM		YES	ANNUAL	YES
EYES			ANNUAL	
LIVER		YES	ANNUAL	YES
MUCOUS MEMBRANES		YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER, PIG	MENT, ECZEMA, ETC)	YES	ANNUAL	YES
SKIN-WITH REGARD TO MALIGNANT &	PRE-MALIGNANT CONI	YES	ANNUAL	YES
IMMUNOCOMPETENCE (LYMPHATIC SYS	STEM)	YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (SF	PECIFY)	YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION	1:	YES	ANNUAL	YES
SPECIAL NOTATIONS:				
SUBSTANCE(S) KNOWN HUMAN CARCINOG	EN	YES	ANNUAL	YES
SUBSTANCE(S) KNOWN MUTAGENIC OR F	ETOTOXIC EFFECTS	YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX LISTED BELOW				
RECOMMENDATIONS:		YES	ANNUAL	YES

REFERENCES: (OTHER); 1. OSHA Instruction TED 1.15, September 22, 1995, Office of Science and Technology Assessment; 2. NAVMEDCOMINST 6570.1, 29 May 86, ANTINEOPLASTIC DRUG GUIDELINES. PROGRAM REVISED 10/97.

# 216 HERBICIDES

 STRESSOR(S) IN THIS PROGRAM:
 NIOSH # CAS #

 PARAQUAT
 DW1960000
 4685-14-7

 DIQUAT
 JM5690000
 85-00-7

DIQUAT	JM5690000	85-00-	.7
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100) MAJOR ILLNESS OR INJURY HOSPITALIZATION OR SURGERY	/15) YES YES YES	ANNUAL ANNUAL ANNUAL	NO NO
CANCER	YES	ANNUAL	NO
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	NO
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
SKIN DISEASE	YES	ANNUAL	NO
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONIT)	IS) YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY-			
RADIOLOGY: CHEST X-RAY (PA)	YES	NO	NO
SPIROMETRY:			
SPIROMETRY (FVC, FEV1, FEV1/FVC)	YES	ANNUAL	NO
COMMENTS ON LABORATORY RESULTS	YES	ANNUAL	NO
PHYSICAL EXAMINATION:			
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION TO:	YES	ANNUAL	NO
EYES	YES	ANNUAL	NO
RESPIRATORY SYSTEM	YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PIGMENT, ECZEMA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SPECIFY):	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:	YES	ANNUAL	NO
	-		

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX LISTED BELOW		YES YES	ANNUAL ANNUAL	NO NO
RECOMMENDATIONS:		YES	ANNUAL	NO

References: (1); (3); (5); (OTHER); 1. NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards, U.S. Department Of Health And Human Services, Sept.1978; 2. Morgan DP. Recognition and Management of Pesticide Poisonings, Fourth Edition. United States Environmental Protection Agency. 1989:76-82; 3. Klaassen CD, Amdur MO, Doull J. Cassarett And Doull's Toxicology, Third Edition. New York, NY: Macmillan Publishing Co. 1986:556-557; 4. Keifer, MC, Human Health Effects of Pesticides, Occupational Medicine state of the Art Reviews, Volume 12/Number 2, Apr-Jun 1997, Hanley & Belfus, Inc. PROGRAM REVISED 10/97.

212 MANMADE MINERAL FIBERS				
STRESSOR(S) IN THIS PROGRAM: GLASSWOOL GLASS FILAMENT	NIOSH	#	CAS #	
ROCKWOOL	PY8070	0000		
SLAGWOOL CERAMIC FIBER:FIBERFRAX; FIBERMAX; FIRELINE CERAMIC; FYBEX; MAN; NEXTEL; PKT; SAFFIL	BD1450	0000	1302-7	6-7
PROGRAM FREQUENCIES: ANNUAL				
EXAM ELEMENT GIVEN FOR:		BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/MAJOR ILLNESS OR INJURY	15)	YES YES	ANNUAL ANNUAL	
HOSPITALIZATION OR SURGERY		YES	ANNUAL	_
CANCER BACK INJURY		YES YES	ANNUAL ANNUAL	_
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)		YES	ANNUAL	
HAVE YOU EVER SMOKED		YES	ANNUAL	
DO YOU CURRENTLY SMOKE (PACKS/ DAY)		YES	ANNUAL	
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC)		YES YES	ANNUAL	
MEDICATION ALLERGIES		YES	ANNUAL ANNUAL	
ANY REPRODUCTIVE HEALTH CONCERNS		YES	ANNUAL	
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA) SKIN DISEASE		YES	ANNUAL	
LUNG OR RESP DISEASE (COPD, BRONCHITIS, PNEUMONITIS)		YES	ANNUAL	
SHORTNESS OF BREATH		YES	ANNUAL	
COUGH (DRY OR PRODUCTIVE)		YES	ANNUAL	NO
WORK HISTORY OF: EXP TO DUSTS (COAL, BLAST. GRIT, SAND, NUISANCE)		YES	ANNUAL	NO
EXP TO ASBESTOS		YES	ANNUAL	NO
EXP TO SILICA OR SAND		YES	ANNUAL	NO
EXP TO SKIN IRRITANTS		YES	ANNUAL	
EXP TO RESPIRATORY IRRITANTS		YES	ANNUAL	
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	NO
LABORATORY- RADIOLOGY-				
CHEST X-RAY (PA) SPIROMETRY-		YES	PENTA-	E NO
SPIROMETRY (FVC, FEV1, FEV1/FVC) COMMENTS ON LABORATORY RESULTS:		YES YES	ANNUAL ANNUAL	NO NO

EXAM ELEMENT	ELEMENT GI	IVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO •		YES	ANNUAI	L NO
MUCOUS MEMBRANES RESPIRATORY SYSTEM SKIN (RASH, EROSION, ULCER, PIGIOTHER APPROPRIATE EXAMINATION (SPECOMMENTS ON PHYSICAL EXAMINATION:	MENT, ECZEM	MA, ETC)	YES YES YES YES YES	ANNUAI ANNUAI ANNUAI ANNUAI ANNUAI	L NO L NO L NO
SPECIAL NOTATIONS: SUBSTANCE(S) SUSPECTED HUMAN CARC. IS SURVEILLANCE/PPE CONSISTENT WITH LISTED ON OPNAV 5100/15? ARE ANY ABNORMALITIES RELATED TO EX. RECOMMENDATIONS:	EXPOSURES		YES YES YES YES	ANNUAI ANNUAI ANNUAI ANNUAI	L NO

REFERENCES: (1); (5); (OTHER); 1. NAVENVIRHLTHCEN Technical Manual NEHC-TM91-1 Oct 1990; 2. Marsh, et al. Mortality among a cohort of US manmade mineral fiber workers: 1985 Follow-up. J Occ Med, Jul 90. Vol.32, 594-604. PROGRAM REVISED 10/97.

# 602 METAL FUMES

PROGRAM FREQUENCY: ANNUAL

11.00.11.1 11.2×021.01 12.11.01.2			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/	15) YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY	YES	ANNUAL	NO
CANCER	YES	ANNUAL	NO
BACK INJURY	YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	NO
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES	YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	NO
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	ANNUAL	NO
SKIN DISEASE	YES	ANNUAL	NO
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITI	S) YES	ANNUAL	NO
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS	YES	ANNUAL	NO
CHANGE OR LOSS OF VISION	YES	ANNUAL	NO
CATARACTS	YES	ANNUAL	NO
EYE IRRITATION	YES	ANNUAL	NO
EYE INJURY	YES	ANNUAL	NO
PERFORATION OF NASAL SEPTUM	YES	ANNUAL	NO
SHORTNESS OF BREATH	YES	ANNUAL	NO
COUGH (DRY OR PRODUCTIVE)	YES	ANNUAL	NO
KIDNEY DISEASE	YES	ANNUAL	NO
WORK HISTORY OF:			
EXP TO LEAD	YES	ANNUAL	NO
EXP TO CHROMIUM OR CHROMIC ACID	YES	ANNUAL	NO
EYE INJURY	YES	ANNUAL	NO
EXP TO SKIN IRRITANTS	YES	ANNUAL	NO
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	NO
EXP TO SOLVENTS (MEK, PERC, TCE, TOLUENE)	YES	ANNUAL	
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	NO
LABORATORY-			
SERUM CHEMISTRY:			
BUN AND CREATININE	YES	ANNUAL	
SGOT (AST)	YES	ANNUAL	NO
URINALYSIS:			
ROUTINE:			
URINALYSIS WITHOUT MICROSCOPIC	YES	ANNUAL	NO

EXAM ELEMENT	ELEMENT	GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
RADIOLOGY: CHEST X-RAY (PA) SPIROMETRY:				YES	NO	NO
SPIROMETRY (FVC, FEV1, FEV1/FVC) COMMENTS ON LABORATORY RESULTS:	)			YES YES	ANNUAL ANNUAL	NO NO
PHYSICAL EXAMINATION: VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION T	ro:			YES	ANNUAL	NO
EYES				YES	ANNUAL	NO
MUCOUS MEMBRANES RESPIRATORY SYSTEM				YES YES	ANNUAL ANNUAL	NO NO
SKIN (RASH, EROSION, ULCER, PIGM	MENT, ECZ	EMA, I	ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SPE	ECIFY)	•	•	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:				YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EXF				YES YES	ANNUAL ANNUAL	NO NO
RECOMMENDATIONS:				YES	ANNUAL	NO

REFERENCES: (OTHER); 1. NIOSH Criteria for a Recommended Standard...Welding, Brazing, and Thermal Cutting. Washington, D.C. U.S. Department of Health and Human Services; 1988. DHHS (NIOSH) Pub. No. 88-110.
2. Pierce JO. Metal Fume Fever. In: Parmeggiani L, ed. Encyclopedia of Occupational Health and Safety, volume 2. Third Edition, Geneva: International Labor Office, 1983:1339-1340. 3. NOTE: References for specific metals are listed in the appropriate programs. PROGRAM REVISED 10/97.

### PROVIDER COMMENTS:

This program is focused toward nonspecific dust, fumes and other irritants as well as potential UV effects experienced by welders. Specific programs in addition to this one will depend on individual exposures and may include; lead, cadmium, chromium, nickel, manganese and others.

# 162 METALWORKING FLUIDS

PROGRAM FREQUENCY: ANNUAL

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EV	AEB HVDS	1111111	ODIC	EXAM
PERSONAL HISTORY OF:	TEIC TIAD:			
	STORY CURRENT (OPNAV 5100/15)	YES	ANNUAL	NO
MAJOR ILLNESS OR INJURY	(011111 01111111 (011111 0100, 10,	YES	ANNUAL	
HOSPITALIZATION OR SURGER	RY	YES	ANNUAL	_
CANCER		YES	ANNUAL	NO
BACK INJURY		YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DE (BEER, WINE, LIQUOR)	RINKS PER WEEK	YES	ANNUAL	NO
HAVE YOU EVER SMOKED		YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (F	PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD	PRESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (F	PRESCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES		YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH O	CONCERNS	YES	ANNUAL	NO
ALLERGIES (ASTHMA, HAY FE	EVER, ECZEMA)	YES	ANNUAL	NO
SKIN DISEASE		YES	ANNUAL	NO
LUNG/RESP DISEASE (EX:COF	PD, BRONCHITIS, PNEUMONITIS)	YES	ANNUAL	NO
HEADACHE, DIZZINESS, LIGH	HT-HEADEDNESS, WEAKNESS	YES	ANNUAL	NO
EYE IRRITATION		YES	ANNUAL	NO
EYE INJURY		YES	ANNUAL	NO
SHORTNESS OF BREATH		YES	ANNUAL	NO
COUGH (DRY OR PRODUCTIVE)		YES	ANNUAL	NO
PNEUMONIA		YES	ANNUAL	NO
WORK HISTORY OF:				
EYE INJURY		YES	ANNUAL	NO
EXP TO SKIN IRRITANTS		YES	ANNUAL	NO
EXP TO RESPIRATORY IRRITA		YES	ANNUAL	NO
EXP TO SOLVENTS (MEK, PER	RC, TCE, TOLUENE)	YES		_
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	NO
LABORATORY- URINALYSIS: ROUTINE:				
URINALYSIS WITH MICROSO	COPIC	YES	ANNUAL	NO
CHEST X-RAY (PA)		YES	NO	NO
SPIROMETRY-				
SPIROMETRY (FVC, FEV1, FE	•	YES	ANNUAL	
COMMENTS ON LABORATORY RESULT	:::	YES	ANNUAL	NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION:				
VITAL SIGNS	<b>TO</b> .	YES	ANNUAL	NO
SPECIAL ATTENTION IN EXAMINATION	TO:			
EYES		YES	ANNUAL	NO
MUCOUS MEMBRANES		YES	ANNUAL	NO
RESPIRATORY SYSTEM		YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PIC	GMENT, ECZEMA, ETC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SE	PECIFY)	YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH	H EXPOSURES LISTED BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO EX	KPOSURES/OCCUPATIONS	YES	ANNUAL	NO
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (1); (3); (4). PROGRAM REVISED 10/97.

603 MIXED SOLVENTS	NIOSH#	CAS#	
	GW1050000		-1
HEXONE (METHYL ISOBUTYL KETONE) METHYL N-AMYL KETONE	SA9275000 MJ5075000 SA7875000	110-43	-0
PROGRAM FREQUENCY: ANNUAL			
EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/	•	ANNUAL	
MAJOR ILLNESS OR INJURY	YES	ANNUAL	
HOSPITALIZATION OR SURGERY CANCER	YES YES	ANNUAL ANNUAL	
BACK INJURY	YES	ANNUAL	
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES		
(BEER, WINE, LIQUOR)	110	ANNOAL	110
HAVE YOU EVER SMOKED	YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	_	
MEDICATION ALLERGIES	YES	ANNUAL	
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA) SKIN DISEASE	YES YES	ANNUAL	
HEPATITIS OR JAUNDICE	YES	ANNUAL ANNUAL	_
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITI		ANNUAL	_
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS	YES	ANNUAL	_
CONTACT LENS USE	YES	ANNUAL	
EYE IRRITATION	YES		_
EYE INJURY	YES	ANNUAL	_
LIVER DISEASE	YES	ANNUAL	NO
KIDNEY DISEASE	YES	ANNUAL	NO
PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS IN HANDS OR FEET	YES	ANNUAL	NO
DEPRESSION, DIFF CONCENTRATING, EXCESSIVE ANXIETY PERSONALITY CHANGE	YES YES	ANNUAL ANNUAL	
	120	MINIOAL	. 110
WORK HISTORY OF:	NTC.	7 NTNTTT 7 T	370
EYE INJURY	YES	ANNUAL	
EXP TO SKIN IRRITANTS	YES YES	ANNUAL	_
EXP TO SOLVENTS (MEK, PERC, TCE, TOLUENE) COMMENTS ON MEDICAL HISTORY:	YES YES	ANNUAL ANNUAL	
COPPLEMID ON PEDICAL HISTORI.	TEO	AIVINUAL	i IVO

EXAM ELEMENT	ELEMENT GIVE	N FOR:	BASE LINE	PERI ODIC	TERM EXAM
LABORATORY-					
SERUM CHEMISTRY:					
LIVER PROFILE TO INCLUDE:	D.1.0.0				
SGOT (AST), TOT. BILI., ALK.	PHOS.			NO	_
BUN AND CREATININE			YES		
SGOT (AST)				ANNUAI	
COMMENTS ON LABORATORY RESULTS:			YES	ANNUAI	_ NO
PHYSICAL EXAMINATION:					
VITAL SIGNS			YES	ANNUAI	_ NO
SPECIAL ATTENTION IN EXAMINATION	TO:				_
CENTRAL NERVOUS SYSTEM			YES	ANNUAI	_ NO
PERIPHERAL NERVOUS SYSTEM (STRE	NGTH, SENSATI	ON, DTR)	YES	ANNUAI	_ NO
EYES	,		YES	ANNUAI	_ NO
LIVER			YES	ANNUAI	NO
RESPIRATORY SYSTEM			YES	ANNUAI	NO
SKIN (RASH, EROSION, ULCER, PIG	MENT, ECZEMA,	ETC)	YES	ANNUAI	NO
OTHER APPROPRIATE EXAMINATION (SP	ECIFY)		YES	ANNUAI	NO
COMMENTS ON PHYSICAL EXAMINATION:			YES	ANNUAI	NO
IS SURVEILLANCE/PPE CONSISTENT WITH	EXPOSURES LI	STED BELOW	YES	ANNUAI	_ NO
ARE ANY ABNORMALITIES RELATED TO EX	POSURES/OCCUP.	ATIONS	YES	ANNUAI	NO
RECOMMENDATIONS:			YES	ANNUAI	NO

When industrial hygiene data document exposure to specific stressors, i.e., lead or chromium, individuals should be entered on the appropriate programs for specific stressors. REFERENCES: (1); (2); (OTHER); 1. NIOSH Current Intelligence Bulletin 48: Organic Solvent Neurotoxicity. U.S. Department of Health and Human Services; 1987. DHHS (NIOSH) Publication No. 87-104. 2. NOTE: References for specific solvents are listed in the appropriate programs. PROGRAM REVISED 10/97.

## PROVIDER COMMENTS:

If IH data show exposure to a specific solvent that does not have a corresponding matrix program, placement into program 603 may be done after a review of the toxicity of the solvent. (See Introduction, Mixed Exposures section.)

#### 179 ORGANOPHOSPHATE/CARBAMATE COMPOUNDS STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # FC5950000 63-25-2 CARBARYL MALATHION WM8400000 121-75-5 TG0175000 298-00-0 METHYL PARATHION TF4550000 56-38-2 PARATHION FERBAM NO8750000 14484-64-1 PROPOXUR FC3150000 114-26-1 PROGRAM FREQUENCY: SEE PROGRAM DESCRIPTION ELEMENT GIVEN FOR: BASE PERI TERM EXAM ELEMENT LINE ODIC EXAM MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) YES ANNUAL NO MAJOR ILLNESS OR INJURY YES ANNUAL NO HOSPITALIZATION OR SURGERY YES ANNUAL NO YES ANNUAL NO CANCER YES ANNUAL NO BACK INJURY YES ANNUAL NO DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED YES ANNUAL NO DO YOU CURRENTLY SMOKE (PACKS/DAY) YES ANNUAL NO YES ANNUAL NO HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE CURRENT MEDICATION USE (PRESCRIPTION OR OTC) YES ANNUAL NO YES ANNUAL NO MEDICATION ALLERGIES ANY REPRODUCTIVE HEALTH CONCERNS YES ANNUAL NO YES ANNUAL NO SKIN DISEASE YES ANNUAL NO LUNG OR RESP DISEASE (COPD, BRONCHITIS, PNEUMONITIS) YES ANNUAL NO USE OF ANTICHOLINERGIC DRUGS (DONNATAL) YES ANNUAL NO HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS NAUSEA OR VOMITING YES ANNUAL NO PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS YES ANNUAL NO IN HANDS OR FEET MIGRAINE HEADACHE YES ANNUAL NO COMMENTS ON MEDICAL HISTORY: YES ANNUAL NO WORK HISTORY OF: DO YOU HANDLE ORGANOPHOSPHATE OR CARBAMATE PESTICIDES YES ANNUAL NO LABORATORY-SERUM CHEMISTRY: RBC CHOLINESTERASE YES \*QUARTERLY NO PLASMA (OR SERUM) CHOLINESTERASE YES \*QUARTERLY NO COMMENTS ON LABORATORY RESULTS: YES \*QUARTERLY NO PHYSICAL EXAMINATION: YES ANNUAL NO VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION TO:

EXAM ELEMENT ELEM	ENT GIVEN	FOR:	BASE	PERI ODIC	TERM EXAM
			TIME	ODIC	EAAM
CENTRAL NERVOUS SYSTEM			YES	ANNUAL	NO
PERIPHERAL NERVOUS SYSTEM (STRENGTH,	SENSATION	, DTR)	YES	ANNUAL	NO
RESPIRATORY SYSTEM			YES	ANNUAL	NO
SKIN (RASH, EROSION, ULCER, PIGMENT,	ECZEMA, E'	TC)	YES	ANNUAL	NO
OTHER APPROPRIATE EXAMINATION (SPECIF	Y)		YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION:			YES	ANNUAL	NO
IS SURVEILLANCE/PPE CONSISTENT WITH EXPOS	URES LISTE	D BELOW	YES	ANNUAL	NO
ARE ANY ABNORMALITIES RELATED TO EXPOSURE	S/OCCUPATION	ONS	YES	ANNUAL	NO
LISTED BELOW					
RECOMMENDATIONS:			YES	ANNUAL	NO

\*At locations where organophosphate pesticides are used year-round, the worker should receive at least quarterly cholinesterase determinations. Routine physical examination during the pesticide use season may be limited to medical and occupational history, and cholinesterase. Physical examinations for signs of mild exposure are not recommended.

REFERENCES: (1); (2); (3); (4); (OTHER); 1. Occupational Medical Surveillance Manual, DOD 6055.5-M, May 1998; 2. OPNAVINST 6250.4B, PEST MANAGEMENT PROGRAMS (due in July 1998); 3. Keifer MC, Human Health Effects of Pesticides, Occupational Medicine State of the Art Reviews, Volume 12/Number 2, Apr-Jun 1997, Hanley & Belfus, Inc.; 4. NEHC Field Operations Manual, 1998 Edition (in press). PROGRAM REVISED 6/98.

#### PROVIDER COMMENTS:

Personnel should be entered into medical surveillance if they are: exposed to airborne concentrations above the action level for 30 or more days per year; at significant risk of absorption from dermal exposure or ingestion; or performing an operation in an area where a worker has expserinced toxicity related to pesticide expsoure and expsoure controls have not been in place long enough to assess their effectiveness.

Serum (or plasma) and red blood cell (RBC) cholinesterase baseline levels should be done at preplacement or before expsoure. This baseline value should be the average of two or more tests taken at least 72 hours, but not more than 14 days apart, and analyzed at the same laboratory. If two tests are done and the difference between them exceeds 15%, a third baseline test should be performed. The average of the two closest values should be considered the true baseline value. All baseline tests should be taken when the worker has had no expsoure to cholinesterase inhibitors for at least 30 days. Guidance on interpretation is contained in references (1) and (4).

# 604 WOOD DUST

STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS #

SOFTWOOD DUSTS HARDWOOD DUSTS

PROGRAM FREQUENCY: ANNUAL

EXAM ELEMENT GIVEN		BASE LINE	PERI ODIC	TERM
MEDICAL HISTORY: HAVE YOU EVER HAD?		TITIVE	ODIC	EXAM
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5	100/15)	YES	ANNUAI	L NO
MAJOR ILLNESS OR INJURY		YES	ANNUAI	_
HOSPITALIZATION OR SURGERY	•	YES	ANNUAI	
CANCER		YES	ANNUAI	
BACK INJURY		YES	ANNUAI	
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	-	YES	ANNUAI	L NO
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED	,	YES	ANNUAI	L NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	-	YES	ANNUAI	L NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	•	YES	ANNUAI	L NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	•	YES	ANNUAI	L NO
MEDICATION ALLERGIES	7	YES	ANNUAI	L NO
ANY REPRODUCTIVE HEALTH CONCERNS	7	YES	ANNUAI	L NO
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	7	YES	ANNUAI	L NO
SKIN DISEASE	7	YES	ANNUAI	L NO
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMO	NITIS)	YES	ANNUAI	L NO
RHINITIS	7	YES	ANNUAI	L NO
NOSE BLEEDS	7	YES	ANNUAI	L NO
SHORTNESS OF BREATH	7	YES	ANNUAI	_ NO
COUGH (DRY OR PRODUCTIVE)	7	YES	ANNUAI	L NO
WORK HISTORY OF:				
PRIOR RESPIRATOR USE	,	YES	ANNUAI	L NO
EXPSOURE TO DUSTS (COAL, BLAST, GRIT, SAND, NUISAN		YES	ANNUAI	_
EXPOSURE TO SKIN IRRITANTS	•	YES	ANNUAI	L NO
EXP TO RESPIRATORY IRRITANTS	<del>,</del>	YES	ANNUAI	L NO
COMMENTS ON MEDICAL HISTORY:	7	YES	ANNUAI	L NO

EXAM ELEMENT	ELEMENT (	GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
LABORATORY: SPIROMETRY-						
SPIROMETRY (FVC, FEV1, FEV1/FVC	)			YES	NO	NO
COMMENTS ON LABORATORY RESULTS:				YES	NO	NO
PHYSICAL EXAMINATION:						
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	т∩ •			YES	ANNUA:	L NO
NASAL MUCOSA	10.			YES	ANNUA	L NO
RESPIRATORY SYSTEM				YES	ANNUA:	L NO
SKIN (RASH, EROSION, ULCER, PIG	MENT, ECZ	EMA, I	ETC)	YES	ANNUA:	L NO
OTHER APPROPRIATE EXAMINATION (SP	ECIFY)			YES	ANNUA:	L NO
COMMENTS ON PHYSICAL EXAMINATION:				YES	ANNUA	L NO
IS SURVEILLANCE/PPE CONSISTENT WITH	EXPOSURE	S LIS	TED BELOW	YES	ANNUA:	L NO
ARE ANY ABNORMALITIES RELATED TO EX	POSURES/O	CCUPA:	FIONS	YES	ANNUA:	L NO
RECOMMENDATIONS:				YES	ANNUA	L NO

REFERENCES OTHER: 1. Blot WJ, Chow WH, McLaughlin JK: Wood dust and nasal cancer risk: A review of the evidence from North America. J Occup Environ Med 1997 Feb;39(2):148-56; 2. Demers PA, Teschke K, Kennedy SM: What to do about softwood? A review of respiratory effects and recommendations regarding exposure limits. Am J Ind Med 1997 Apr;31(4):385-398.

## NEW PROGRAM 3/98.

## PROVIDER COMMENTS:

Wood dust has been associated with sinonasal cancer in cohorts of hardwood dust workers. Several wood dusts have been associated with asthma and allergic skin responses.

# Specialty Examinations Introduction and Changes

Requirements for performing specialty examinations are included in instructions, Civilian Personnel Instructions and federal and state laws. Instructions, technical manuals and publications used for this edition were current at the time of revision. Users of this manual must ensure that they have most current issue of the appropriate reference.

Every effort was made in preparing this section of the manual to include the minimum examination requirements. Medical personnel will then be able to add tests needed to meet the requirements of local and state law or activity imposed requirements. References or written protocols should be used when adding tests routinely to examinations.

Where there were no specific requirements prohibiting standardization,  ${\sf EKG's}$  and lipid panels were standardized to a baseline and  ${\sf EKG}$  and lipid panel at least once past age 40.

Where strict instructions mandate program documentation, programs are maintained in this manual only for guidance on scheduling and to provide appropriate references. These programs are; Aviation, Diver/Hyperbaric Worker and Submarine Duty.

All new tests are printed in **bold** letters. A new screening program was added for Barber and Beauty Shop Employees, meeting the requirments in NAVMED P-5010, Manual of Naval Preventive Medicine. This program is generally managed by Preventive Medicine Technicians.

Construction, Railroad and Weight Handling Equipment Operators program was renamed, Weight Handling Equipment (Management of).

# Specialty Examinations

Aviation	Hazardous Waste Workers and Emergency
	Responders
Barber and Beauty Shop Employees	Health Care Workers (HCWs)
Childcare Worker	Military DOT, Explosive Handler/Operators
	(Interim Examination)
Department of Transportation (DOT)	Motor Vehicle Operator(Other than DOT)
Vehicle Operators (Civilians)	
Diver/Hyperbaric Worker	Naval Criminal Investigative Service
Explosives Handlers and Explosive	Police/Guard Security
Vehicle Operators (Civilians)	
Firefighter (Annual Screen)	Respiratory User Certification Exam
Firefighter (Preplacement and	Submarine Duty
Periodic)	
Foodservice Personnel	Wastewater/Sewage Worker
Forklift Operator	Weight Handling Equipment (Management of)
Freon Workers	

## 701 AVIATION

#### PROGRAM FREQUENCY: BY AGE

All aviation personnel (officer and enlisted) will undergo a complete aviation medical examination (SF-88 and SF-93 or NAVMED 6120/2 as appropriate) within 30 days of their birthday at ages 21, 24, 27, 30, 33, 36, 39 and annually thereafter.

#### PROGRAM DESCRIPTION:

This program is designed solely to provide guidance in scheduling frequency and references. Medical examination is recorded on SF-88 and SF-93 or NAVMED 6130/2 (as appropriate). Detailed guidance is contained in Manual of the Medical Department, NAVMED P-117, Chapter 15, Article 15-65. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

This exam can only be performed by flight surgeons and aviation medical officers.

Physical exams and standards for aviation physicals are updated annually and available on the internet at:

http://support1.med.navy.mil/bumed/med-02/med-23

or on the NOMI home page at:

http://www.nomi.navy.mil

This document contains guidance for Class I, Class II, and Class III and enlisted aviation personnel. It also contains height and weight policies and clearance for non-military personnel to fly in USN/USMC Aircraft.

# 723 BARBER AND BEAUTY SHOP EMPLOYEES

PROGRAM	FREOUENCY:	PREPLACEMENT
FICOGICAL	TIVEOCEMCT.	FILEFIACERENT

PROGRAM FREQUENCI: PREPLACEMENT		
	EMENT GIVEN FOR: BASE LINE	
MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF:		
MAJOR ILLNESS OR INJURY	YES	
HOSPITALIZATION OR SURGERY	YES	
CANCER	YES	
BACK INJURY	YES	
DO YOU DRINK 6 OR MORE DRINKS PER (BEER, WINE, LIOUOR)	WEEK YES	
HAVE YOU EVER SMOKED	YES	
DO YOU CURRENTLY SMOKE (PACKS/DAY)	·-	
HEART DISEASE, HIGH BLOOD PRESSURE		
CURRENT MEDICATION USE (PRESCRIPTI		
MEDICATION ALLERGIES	YES	
ANY REPRODUCTIVE HEALTH CONCERNS	YES	
SKIN DISEASE	YES	
HEPATITIS OR JAUNDICE	YES	
TUBERCULOSIS	YES	
INFECTIOUS DISEASE	YES	
CHRONIC ABDOMINAL PAIN, VOMITING,	OTHER GI SYMPTOMS YES	
COMMENTS ON MEDICAL HISTORY:	YES	
LABORATORY-		
ADDITIONAL LAB TESTS:		
APPROPRIATE BY THE PHYSICIAN	YES	
COMMENTS ON LABORATORY RESULTS:	YES	
PHYSICAL EXAMINATION:		
VITAL SIGNS	YES	
SPECIAL ATTENTION IN EXAMINATION TO:		
SKIN (RASH, EROSION, ULCER, PIGMEN	T, ECZEMA, ETC) YES	
OTHER APPROPRIATE EXAMINATION (SPECI		
COMMENTS ON PHYSICAL EXAMINATION:	YES	
CERTIFICATIONS PERFORMED IAW:		
NAVMED P-5010	YES	
ASSESSMENT:	YES	
RECOMMENDATIONS:	YES	

## PROGRAM DESCRIPTION:

REFERENCES: (OTHER); 1. Manual of Naval Preventive Medicine NAVMED P-5010, Chapter 2. NEW PROGRAM 6/98.

#### PROVIDER COMMENTS:

All barber shop and beauty shop employees, including personnel employed by a civilian contract, must be medically screened and determined to be free of communicable disease prior to their initial assignment. Unless necessary for local reasons, there is no requirement for periodic examinations. This screening examination may be performed by non-physician personnel.

# 703 CHILD CARE WORKER

PROGRAM FREQUENCY: ANNUAL

EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER	HAD?		ODIC	
PERSONAL HISTORY OF:				
MAJOR ILLNESS OR INJURY		YES	ANNUAL	NO
HOSPITALIZATION OR SURGERY		YES	ANNUAL	NO
CANCER		YES	ANNUAL	NO
BACK INJURY		YES	ANNUAL	NO
DO YOU DRINK 6 OR MORE DRINE	KS PER WEEK	YES	ANNUAL	NO
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED		YES	ANNUAL	NO
DO YOU CURRENTLY SMOKE (PACE	KS/DAY)	YES	ANNUAL	NO
HEART DISEASE, HIGH BLOOD PE	RESSURE, OR STROKE	YES	ANNUAL	NO
CURRENT MEDICATION USE (PRES	SCRIPTION OR OTC)	YES	ANNUAL	NO
MEDICATION ALLERGIES		YES	ANNUAL	NO
ANY REPRODUCTIVE HEALTH CONC	CERNS	YES	ANNUAL	NO
SKIN DISEASE		YES	ANNUAL	NO
HEPATITIS OR JAUNDICE		YES	ANNUAL	NO
TUBERCULOSIS		YES	_	NO
INFECTIOUS DISEASE		YES	ANNUAL	NO
HISTORY OF CHICKEN POX		YES	_	_
CHRONIC ABDOMINAL PAIN, VOM	ITING, OTHER GI SYMPTOMS	YES	ANNUAL	NO
MENTAL/EMOTIONAL ILLNESS		YES	ANNUAL	NO
DEPRESSION, DIFFICULTY CONCE	ENTRATING, EXCESSIVE			
ANXIETY		YES	ANNUAL	NO
TREATMENT FOR DRUG OR ALCOHO	OL USE	YES	ANNUAL	NO
COMMENTS ON MEDICAL HISTORY:		YES	ANNUAL	NO
LABORATORY-				
ADDITIONAL LAB TESTS:				
TUBERCULOSIS SCREEN		YES	_	NO
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	NO
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	_	NO
OTHER APPROPRIATE EXAMINATION		YES	ANNUAL	NO
COMMENTS ON PHYSICAL EXAMINATION	1:	YES	ANNUAL	NO
QUALIFICATIONS:				
CURRENT IMMUNIZATIONS		YES	ANNUAL	NO
MEASLES/MUMPS/RUBELLA IMMUNE S	STATUS	YES	ANNUAL	NO
VARICELLA IMMUNE STATUS		YES	ANNUAL	
ASSESSMENT:		YES	ANNUAL	NO
RECOMMENDATIONS:		YES	ANNUAL	NO

REFERENCES: (OTHER); 1. Personnel health requirements are defined in OPNAVINST 1700.9D, Child Development Programs. 2. Current recommendations for immunizations are contained in NAVMEDCOMINST 6260.3, Immunizations and Chemoprophylaxis. 3. NAVMEDCOMINST 6224.8, Tuberculosis Control Program, outlines management of tuberculosis testing programs. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

The immunization requirements promulgated by the various references can be summarized as follows:

- A. Immunizations against polio, tetanus and diphtheria must be current.
- B. Immunity to measles, mumps and rubella is required. This requirement can be met by documentation of physician-diagnosed illness (except rubella), serologic evidence of immunity, or documented immunization (for measles, 2 doses one month apart after 1 year of age on individuals born on or after 1957 is required).
- C. Specific requirements are outlined in the instructions listed in the program description.
- D. Unusual circumstances such as an outbreak, may necessitate additional requirements.
  - E. Annual influenza immunization is recommended.

The purpose of the exam is to identify potentially communicable conditions. Scope of the exam would depend on results of the history, local public health requirements and communicable disease risk specific to the area.

For those child care worker applicants without a written record of polio immunization status, attendance at public school in the U.S. is adequate for presumption of prior oral polio vaccine administration.

# 706 DEPARTMENT OF TRANSPORTATION (DOT) VEHICLE OPERATORS (CIVILIANS)

OCCUPATIONS IN THIS PROGRAM: DOT VEHICLE OPERATORS (CIVILIAN)

PROGRAM FREQUENCY: BI-ENNIAL

U. S. Department of Transportation, 49 CFR 391.41-49

EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVE	S HVDS	TITIVE	ODIC	EVAN
PERSONAL HISTORY OF:				
	ORY CURRENT (OPNAV 5100/15)	YES	BI-ENN	NO
MAJOR ILLNESS OR INJURY	( )		BI-ENN	NO
HOSPITALIZATION OR SURGERY		YES	BI-ENN	NO
CANCER		YES	BI-ENN	NO
BACK INJURY			BI-ENN	NO
BACK INJURY DO YOU DRINK 6 OR MORE DRII (BEER, WINE, LIQUOR)	NKS PER WEEK	YES	BI-ENN	NO
HAVE YOU EVER SMOKED		YES	BI-ENN	NO
DO YOU CURRENTLY SMOKE (PAG	CKS/DAY)		BI-ENN	NO
HEART DISEASE, HIGH BLOOD I	PRESSURE, OR STROKE	YES	BI-ENN	NO
CURRENT MEDICATION USE (PRI	ESCRIPTION OR OTC)	YES	BI-ENN	NO
MEDICATION ALLERGIES			BI-ENN	NO
ANY REPRODUCTIVE HEALTH COI	NCERNS	YES	BI-ENN	NO
USE OF SEAT BELTS (ALWAYS,	MOSTLY, SOME, NONE)	YES	BI-ENN	NO
	, BRONCHITIS, PNEUMONITIS)	YES	BI-ENN	NO
SYPHILIS OR GONORRHEA		YES	BI-ENN	NO
HEADACHE, DIZZINESS, LIGHT-	-HEADEDNESS, WEAKNESS	YES	BI-ENN	NO
NERVOUS STOMACH OR ULCER		YES	BI-ENN	NO
HEAD INJURY		YES	BI-ENN	NO
CHANGE OR LOSS OF VISION		YES	BI-ENN	NO
LOSS OR CHANGE IN HEARING			BI-ENN	NO
CHEST PAIN, ANGINA, HEART	ATTACK, PALPITATIONS	YES	BI-ENN	NO
KIDNEY DISEASE		YES	BI-ENN	NO
EPILEPSY (SEIZURE DISORDER		YES	BI-ENN	NO
PROBLEMS WITH BALANCE AND (	COORDINATION	YES	BI-ENN	NO
PROBLEMS WITH NUMBNESS, TII IN HANDS OR FEET	NGLING, WEAKNESS	YES	BI-ENN	NO
MIGRAINE HEADACHE		YES	BI-ENN	NO
DIABETES OR OTHER ENDOCRIN	E GLAND DISORDER	YES	BI-ENN	NO
MENTAL/EMOTIONAL ILLNESS		YES	BI-ENN	NO
DEPRESSION, DIFF CONCENTRA		YES	BI-ENN	NO
TREATMENT FOR DRUG OR ALCOR	HOL USE	YES	BI-ENN	NO
PERSONALITY CHANGE		YES	BI-ENN	NO
MUSCLE OR JOINT PROBLEMS			BI-ENN	NO
PERMANENT DEFECT FROM ILLNI	ESS, DISEASE OR INJURY	YES	BI-ENN	NO
FAMILY HISTORY OF:				
HEART DISEASE, HIGH BLOOD I	PRESSURE, OR STROKE		BI-ENN	NO
COMMENTS ON MEDICAL HISTORY:		YES	BI-ENN	NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
LABORATORY:			ODIC	
SERUM CHEMISTRY:				
BASELINE LIPID PROFILE		YES	NO	NO
URINALYSIS:				
ROUTINE:				
URINALYSIS WITH MICROSCOPIC		YES	BI-ENN	NO
ADDITIONAL LAB TESTS:				
BASELINE EKG/LIPID PROFILE ONC	E PAST AGE 40?	NO	BI-ENN	NO
CARDIOLOGY:				
BASELINE ELECTROCARDIOGRAM		YES	NO	NO
AUDIOLOGY:				
AUDIOGRAM		YES	BI-ENN	NO
OPTOMETRY:				
VISION SCREEN (VISUAL ACUITY)		YES	BI-ENN	NO
COLOR VISION		YES	BI-ENN	NO
VISUAL FIELDS		-	BI-ENN	NO
COMMENTS ON LABORATORY RESULTS:		YES	BI-ENN	NO
DIVIGIONI DVANTNAMION.				
PHYSICAL EXAMINATION:		NT C	DT DANS	NO
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION	TO:	YES	BI-ENN	NO
CENTRAL NERVOUS SYSTEM	10.	YES	BI-ENN	NO
PERIPHERAL NERVOUS SYSTEM (STR	FNCTH SENSATION DTP)		BI-ENN	NO
BACK & MUSCULOSKELETAL SYSTEM	ENGIH, BENDALION, DIK)		BI-ENN	NO
EXTREMITIES			BI-ENN	NO
CARDIOVASCULAR SYSTEM			BI-ENN	NO
PERIPHERAL VASCULAR SYSTEM (RA	YNAUD'S)		BI-ENN	NO
EYES			BI-ENN	NO
ABDOMEN		YES	BI-ENN	NO
GENITOURINARY TRACT		YES	BI-ENN	NO
RESPIRATORY SYSTEM		YES	BI-ENN	NO
EARS (TYMPANIC MEMBRANES)		YES	BI-ENN	NO
OTHER APPROPRIATE EXAMINATION (S	PECIFY)	YES	BI-ENN	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	BI-ENN	NO
IS SURVEILLANCE/PPE CONSISTENT WIT			BI-ENN	NO
ARE ANY ABNORMALITIES RELATED TO E	XPOSURES/OCCUPATIONS	YES	BI-ENN	NO
LISTED BELOW RECOMMENDATIONS:		VEC	יאואית דם	NO
KECOMMEMDAT TOMS.		YES	BI-ENN	NO

Physical qualifications are contained in Federal Motor Carrier Safety Regulations, U. S. Department of Transportation, Federal Highway Administration, 49 CFR 391.41-49. A handbook containing the regulations can be ordered from: American Trucking Association 2200 Mill road, Alexandria, VA. 22314-4677, 1-800-ATA-LINE.

Military personnel are exempt from the requirements of the Commercial Motor Vehicle Safety Act of 1986, and, in particular, from the requirements of 49 CFR Part 383 regarding physical examination requirements in order to obtain a commercial drivers license. The scope of the periodic examinations is considered sufficient to meet the requirements. The periodicity of

examinations for active duty and reserve military personnel is outlined in the MANMED. Active duty members must meet the standards of MANMED, chapter 15, section III, with particular emphasis on the systems listed in that section. Navy Explosive Ordnance Disposal personnel must also meet the requirements of article 15-66. REFERENCES: (OTHER); 1. 49 CFR 391.41-49; 2. Hartenbaum, N. The DOT Medical Examination, OEM Press, Boston, MA 1997. PROGRAM REVISED 10/97.

#### Web sites:

- Home page for FHWA http://www/fhwa.dot.gov/.
- 2. Regulations http://mcregis.fhwa.dot.gov/laws.htm
  PROVIDER COMMENTS:

This program is designed to provide guidance for physical standards of drivers who must meet the requirements from the Federal Department of Transportation. Activities must be familiar with individual state Department of Transportation motor vehicle operator requirements since some state requirements may be more stringent. Licensing officials in Public Works, Ordnance Department, Safety, Human Resources Office or Navy Supply can assist in determining the state requirements.

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## 705 DIVER/HYPERBARIC WORKER

#### PROGRAM FREQUENCY:

All active divers will have a diving medical examination every 5 years. If assigned remote from a Diving Medical Officer or Undersea Medical Officer, the examination will be conducted every 3 years.

After age 45 the examination will be conducted every 2 years.

## PROGRAM DESCRIPTION:

This program is designated solely to provide guidance on scheduling frequency. Tests and forms required are promulgated in Manual of the Medical Department, NAVMED P-117, Chapter 15, Article 15-66, Change 108. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

Examinations must be performed by a medical officer or DOD civilian physician. Examinations not performed by diving medical officer, undersea medical officer, or a clinical hyperbaric medical officer will be forwarded to CHBUMED (MED-21) for review and approval.

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# 720 EXPLOSIVES HANDLERS AND EXPLOSIVES VEHICLE OPERATORS (CIVILIANS)

PROGRAM FREQUENCY: BY AGE

EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?				
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY CUR	RRENT (OPNAV 5100/15)	YES	BY AGE	NO
MAJOR ILLNESS OR INJURY		YES	BY AGE	NO
HOSPITALIZATION OR SURGERY		YES	BY AGE	NO
CANCER		YES	BY AGE	NO
BACK INJURY		YES	BY AGE	NO
DO YOU DRINK 6 OR MORE DRINKS PER (BEER, WINE, LIQUOR)	R WEEK	YES	BY AGE	NO
HAVE YOU EVER SMOKED		YES	BY AGE	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY	<i>(</i> )	YES	BY AGE	NO
HEART DISEASE, HIGH BLOOD PRESSUR	RE, OR STROKE	YES	BY AGE	NO
CURRENT MEDICATION USE (PRESCRIPT	TION OR OTC)	YES	BY AGE	NO
MEDICATION ALLERGIES		YES	BY AGE	NO
USE OF SEAT BELTS (ALWAYS, MOSTLY	(, SOME, NONE)	YES	BY AGE	NO
ANY REPRODUCTIVE HEALTH CONCERNS			BY AGE	NO
LUNG/RESP DISEASE (EX:COPD, BRONG	CHITIS, PNEUMONITIS)	YES	BY AGE	NO
SYPHILIS OR GONORRHEA		YES	BY AGE	NO
HEADACHE, DIZZINESS, LIGHT-HEADEI	ONESS, WEAKNESS	YES	BY AGE	NO
NERVOUS STOMACH OR ULCER			BY AGE	NO
HEAD INJURY			BY AGE	NO
CHANGE OR LOSS OF VISION			BY AGE	NO
LOSS OR CHANGE IN HEARING			BY AGE	NO
CHEST PAIN, ANGINA, HEART ATTACK	, PALPITATIONS	YES	BY AGE	NO
KIDNEY DISEASE			BY AGE	NO
EPILEPSY (SEIZURE DISORDER)			BY AGE	NO
PROBLEMS WITH BALANCE AND COORDIN			BY AGE	NO
PROBLEMS WITH NUMBNESS, TINGLING	, WEAKNESS	YES	BY AGE	NO
IN HANDS OR FEET			DII 3.00	170
MIGRAINE HEADACHE	D. D. GODDED		BY AGE	NO
DIABETES OR OTHER ENDOCRINE GLANI	DISORDER		BY AGE	NO
MENTAL/EMOTIONAL ILLNESS	NICE COLLEGE AND THE PROPERTY		BY AGE	NO
DEPRESSION, DIFF CONCENTRATING, F		YES	BY AGE	NO
TREATMENT FOR DRUG OR ALCOHOL USI	<u>.</u>		BY AGE	NO
PERSONALITY CHANGE			BY AGE	NO
MUSCLE OR JOINT PROBLEMS	CONCE OD INTERV		BY AGE	NO
PERMANENT DEFECT FROM ILLNESS, DI	LSEASE UK INJUKY	YES	BY AGE	NO
FAMILY HISTORY OF:	DE OD CUDOKE	VEC	מא א א א	NTO
HEART DISEASE, HIGH BLOOD PRESSUR COMMENTS ON MEDICAL HISTORY:	KE, OK SIKOKE	YES YES	BY AGE BY AGE	NO NO
COUNTINIE ON MEDICAL DISTORI.		TEO	DI WGE	INO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
LABORATORY:			0210	
HEMATOLOGY:				
HEMATOCRIT		YES	BY AGE	NO
SERUM CHEMISTRY				
FASTING BLOOD GLUCOSE		YES	BY AGE	NO
BASELINE LIPID PROFILE		YES	NO	NO
URINALYSIS:				
ROUTINE:				
URINALYSIS WITH MICROSCOPIC		YES	BY AGE	NO
ADDITIONAL LAB TESTS:				
BASELINE EKG/LIPID PROFILE ONC	E PAST AGE 40?	NO	BY AGE	NO
CARDIOLOGY				
BASELINE ELECTROCARDIOGRAM		YES	NO	NO
AUDIOLOGY-				
AUDIOGRAM		YES	BY AGE	NO
OPTOMETRY-				
VISION SCREEN (VISUAL ACUITY)		YES	BY AGE	NO
COLOR VISION		YES	BY AGE	NO
VISUAL FIELDS		YES	BY AGE	NO
TONOMETRY OVER AGE 40 (IF CLIN	ICALLY INDICATED)	YES	BY AGE	NO
COMMENTS ON LABORATORY RESULTS:		YES	BY AGE	NO
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	BY AGE	NO
SPECIAL ATTENTION IN EXAMINATION	TO:			
CENTRAL NERVOUS SYSTEM		YES	BY AGE	NO
PERIPHERAL NERVOUS SYSTEM (STR	ENGTH, SENSATION, DTR)	YES	BY AGE	NO
BACK & MUSCULOSKELETAL SYSTEM		YES	BY AGE	NO
EXTREMITIES		YES	BY AGE	NO
CARDIOVASCULAR SYSTEM		YES	BY AGE	NO
PERIPHERAL VASCULAR SYSTEM (RA	YNAUD'S)	YES	BY AGE	NO
EYES		YES	BY AGE	NO
ABDOMEN		YES	BY AGE	NO
GENITOURINARY TRACT		YES	BY AGE	NO
RESPIRATORY SYSTEM		YES	BY AGE	NO
EARS (TYMPANIC MEMBRANES)		YES	BY AGE	NO
OTHER APPROPRIATE EXAMINATION (S	PECIFY)	YES	BY AGE	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	BY AGE	NO
IS SURVEILLANCE/PPE CONSISTENT WITH			BY AGE	NO
ARE ANY ABNORMALITIES RELATED TO EX	XPOSURES/OCCUPATIONS	YES	BY AGE	NO
LISTED BELOW		VEC	DV van	NTO
RECOMMENDATIONS:		YES	BY AGE	NO

The purpose of this program, as defined in Manual of the Medical Department (MANMED), is that medical examinations of explosive handlers and Hazardous Material Vehicle Operators are conducted to ensure employees who handle explosives or operate vehicles or machinery which transport explosive or other hazardous material are physically qualified. A separate program 721, is for military members. REFERENCES: (OTHER); 1. 49 CFR, part 391; 2. Manual of the Medical Department, U.S. Navy, NAVMED P-117, Change 109.

## 3. Hartenbaum, N. The DOT Medical Examination, OEM Press, Boston, MA 1997.

A series of medical conferences on various diseases and commercial drivers were sponsored by DOT and the reports are available through National Technical Information Service (NTIS). Condensed versions of these reports are available over the internet at http://home.att.net/~NataH. PROGRAM REVISED 10/97.

#### PROGRAM FREQUENCY

Age	Frequency	
Up to 60 years	Every two years	
Age 60 and above	Annual	

#### PROVIDER COMMENTS:

Civilian personnel must meet the general standards for employment as provided by the Office of Personnel Management and the standards for rejection listed in reference (2) above. Civilian contract carriers need only be qualified per Title 49, CFR, part 391.

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# 722 FIREFIGHTER (ANNUAL HEALTH SCREEN)

PROGRAM FREQUENCY: ANNUAL

EXAM ELEMENT ELEMENT GIVEN FOR: PERI ODIC

MEDICAL HISTORY: HAVE YOU EVER HAD?

PERSONAL HISTORY OF:

IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) ANNUAL MAJOR ILLNESS OR INJURY ANNUAL HOSPITALIZATION OR SURGERY ANNUAL CANCER ANNUAL BACK INJURY ANNUAL

DO YOU DRINK 6 OR MORE DRINKS PER WEEK ANNUAL

(BEER, WINE, LIQUOR)

HAVE YOU EVER SMOKED

DO YOU CURRENTLY SMOKE (PACKS/DAY)

HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE

CURRENT MEDICATION USE (PRESCRIPTION OR OTC)

ANNUAL

MEDICATION ALLERCIES

MEDICATION ALLERGIES
ANNUAL
ANY REPRODUCTIVE HEALTH CONCERNS
BLOOD DISEASES (ANEMIA)
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)
ANNUAL
ANNUAL

ANNUAL
SKIN DISEASE
HEAT INJURY (CRAMPS, EXHAUSTION, STROKE)
PERIPHERAL VASCULAR DISEASE
ANNUAL
ANNUAL
ANNUAL

HEPATITIS OR JAUNDICE
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS)
ANNUAL
TUBERCULOSIS
ANNUAL

HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS

CHANGE OR LOSS OF VISION

LOSS OR CHANGE IN HEARING

CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS

ANNUAL

ANNUAL

SHORTNESS OF BREATH
CHRONIC ABDOMINAL PAIN, VOMITING, OTHER GI SYMPTOMS
ANNUAL

CURRENT PREGNANCY (FEMALES ONLY)

EPILEPSY (SEIZURE DISORDER)

PROBLEMS WITH BALANCE & COORDINATION

ANNUAL

PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS IN ANNUAL

HANDS OR FEET

THYROID DISEASE (HEAT OR COLD INTOLERANCE)

MENTAL/EMOTIONAL ILLNESS

MUSCLE OR JOINT PROBLEMS

ANNUAL

ANNUAL

WORK HISTORY OF:

EXP TO POTENTIALLY INFECTIOUS BODY FLUIDS ANNUAL COMMENTS ON MEDICAL HISTORY: ANNUAL

ELEMENT GIVEN FOR: PERI EXAM ELEMENT ODIC

LABORATORY-

ADDITIONAL LAB TESTS:

TUBERCULOSIS SCREEN OPTOMETRY-VISION SCREEN (VISUAL ACUITY) ANNUAL COLOR VISION ANNUAL

ANNUAL

COMMENTS ON LABORATORY RESULTS: ANNUAL

PHYSICAL EXAMINATION:

VITAL SIGNS ΔΝΝΙΙΔΙ. HETGHT ANNUAL WEIGHT ANNUAL OTHER APPROPRIATE EXAMINATION (SPECIFY) ANNUAL COMMENTS ON PHYSICAL EXAMINATION: ANNUAL

SPECIAL REQUIREMENTS:

QUALIFICATIONS:

CURRENT IMMUNIZATIONS ANNUAL IS HEPATITIS B VACCINE SERIES COMPLETE OR ANNUAL

PRIOR INFECTION DOCUMENTED?

IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW ANNUAL ARE ANY ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS ANNUAL

LISTED RELOW

**RECOMMENDATIONS:** ANNUAL

#### PROGRAM DESCRIPTION:

REFERENCE: (5) (OTHER); 1. Qualification Standards, Fire Protection and Prevention Series, GS-081, July 1993; 2. DODINST 6055.6 DoD Fire and Emergency Services Program, 15 DEC 94; 3. National Fire Fighters Protection Association, (NFPA) Standard on Fire Department Safety and Occupational Health (NFPA 1500), 1997 Edition. 4. NFPA Standard on Medical Requirements for Fire Fighters, (NFPA 1582), 1997 Edition; 5. NFPA Standard on Fire Department Infection Control Plan, (NFPA 1581), 1997 Edition; 6. OSHA Standard 29 CFR 1910.1030; 7. Orris, Peter, Melius, James and Duffy, RM, Occupational Medicine: State of the Air Review Firefighters' Safety and Health, Volume 10/Number 14, Hanley & Beflus, Inc., Philadelphia, PA. PROGRAM REVIEWED: 1/98.

#### PROVIDER COMMENTS:

Program 707 provides preplacement and periodic medical examination guidelines. Program 722 is used as an annual screen when the required periodic examination, Program 707, is not due. The extent of the medical evaluation and additional testing should be based on the firefighter's medical condition.

Reference (2) mandates the medical and physical criteria listed in references (3), (4) and (5). Reference (2) mandates that all personnel will participate in a physical fitness exercise program and shall be a special emphasis target group for DoD Components anti-smoking education programs.

References (2) and (4) contain conditions, by category, that are considered medically disqualifying. NOTE: The guidance in 5 CFR Part 339, "Medical Qualification Determinations", must be consulted on all civilian employees in which there is a question of worker fitness. The presence of a medically disqualifying condition does not automatically preclude continued work. This decision should be made by management with input from Occupational Medicine, Human Resources Office and possibly the worker's personal physician. Reference (6) considers public safety workers, policemen and Firefighters at risk for exposure to bloodborne pathogens. This risk is not universal since duties vary greatly between departments and locations. The purpose of requiring assessment of hepatitis B immune status is to determine the extent of potential exposure. Those who are felt to be at risk may be placed in Program 178, Blood and/or Body Fluids.

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# 707 FIREFIGHTER (PREPLACEMENT AND PERIODIC)

PROGRAM FREQUENCY: BY AGE

EXAM ELEMENT GIVEN FOR		PERI	TERM
MEDICAL HISTORY: HAVE YOU EVER HAD?	LINE	ODIC	EXAM
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100	0/15) YES	BY AGE	***
MAJOR ILLNESS OR INJURY		BY AGE	***
HOSPITALIZATION OR SURGERY		BY AGE	***
CANCER	·-	BY AGE	***
BACK INJURY	YES	BY AGE	***
DO YOU DRINK 6 OR MORE DRINKS PER WEEK		BY AGE	***
(BEER, WINE, LIQUOR)			
HAVE YOU EVER SMOKED	YES	BY AGE	***
DO YOU CURRENTLY SMOKE (PACKS/DAY)		BY AGE	***
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	BY AGE	***
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	BY AGE	***
MEDICATION ALLERGIES	YES	BY AGE	***
ANY REPRODUCTIVE HEALTH CONCERNS	YES	BY AGE	***
BLOOD DISEASES (ANEMIA)	YES	BY AGE	***
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	BY AGE	***
SKIN DISEASE	YES	BY AGE	***
HEAT INJURY (CRAMPS, EXHAUSTION, STROKE)	YES	BY AGE	***
PERIPHERAL VASCULAR DISEASE	YES	BY AGE	* * *
HEPATITIS OR JAUNDICE	YES	BY AGE	* * *
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONIT	ris) yes	BY AGE	***
TUBERCULOSIS	YES	BY AGE	***
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS	·-	BY AGE	* * *
CHANGE OR LOSS OF VISION	YES	BY AGE	***
LOSS OR CHANGE IN HEARING	·-	BY AGE	***
CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS		BY AGE	***
SHORTNESS OF BREATH	·-	BY AGE	***
CHRONIC ABDOMINAL PAIN, VOMITING, OTHER GI SYMPTO		BY AGE	***
CURRENT PREGNANCY (FEMALES ONLY)		BY AGE	* * *
EPILEPSY (SEIZURE DISORDER)		BY AGE	***
PROBLEMS WITH BALANCE & COORDINATION	·-	BY AGE	***
PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS IN	YES	BY AGE	***
HANDS OR FEET			
THYROID DISEASE (HEAT OR COLD INTOLERANCE)	·-	BY AGE	* * *
MENTAL/EMOTIONAL ILLNESS	·-	BY AGE	* * *
MUSCLE OR JOINT PROBLEMS	YES	BY AGE	***
WORK HISTORY OF:			
EXP TO POTENTIALLY INFECTIOUS BODY FLUIDS	VFC	BY AGE	***
COMMENTS ON MEDICAL HISTORY:		BY AGE	***
LABORATORY-	1110	DI VGE	
HEMATOLOGY:			
COMPLETE BLOOD COUNT (HGB, HCT, WBC, MCV, MCH, MC	CHC) YES	BY AGE	***

EXAM ELEMENT	ELEMENT GIVEN FOR		E PERI E ODIC	TERM EXAM
SERUM CHEMISTRY:			0210	
LIVER PROFILE TO INCLUDE:				
SGOT (AST), TOT. BILI., ALK	PHOS.	YES	NO	***
BUN AND CREATININE		YES	BY AGE	***
BASELINE LIPID PROFILE		YES	NO	NO
SGOT (AST)		YES	BY AGE	***
URINALYSIS:				
ROUTINE:				
URINALYSIS WITHOUT MICROSCO	PIC	YES	BY AGE	***
ADDITIONAL LAB TESTS:				
TUBERCULOSIS SCREEN		YES	ANNUAL	***
BASELINE EKG/LIPID PROFILE ONG	E PAST AGE 40?	NO	BY AGE	***
CARDIOLOGY:				
BASELINE ELECTROCARDIOGRAM		YES	NO	NO
AUDIOLOGY:				
AUDIOGRAM		YES	BY AGE	***
RADIOLOGY:				
CHEST X-RAY (PA)		YES	* *	**
SPIROMETRY:				
SPIROMETRY (FVC, FEV1, FEV1/FV	7C)	YES	BY AGE	***
OPTOMETRY:				
VISION SCREEN (VISUAL ACUITY)		YES	_	
COLOR VISION			BY AGE	
PERIPHERAL VISION			BY AGE	
COMMENTS ON LABORATORY RESULTS:		YES	BY AGE	
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	BY AGE	***
SPECIAL ATTENTION IN EXAMINATION	1 TO:			
CENTRAL NERVOUS SYSTEM		YES	BY AGE	***
PERIPHERAL NERVOUS SYSTEM (ST	RENGTH, SENSATION, D		_	
BACK & MUSCULOSKELETAL SYSTEM		YES	_	
CARDIOVASCULAR SYSTEM		YES	_	
EYES		YES	_	
GENITOURINARY TRACT			BY AGE BY AGE	
LIVER RESPIRATORY SYSTEM			BY AGE	
EARS (TYMPANIC MEMBRANES)			BY AGE	
SKIN (RASH, EROSION, ULCER, PI	CMENT FCZEMA FTC)		_	***
THYROID	GHENT, ECZEMA, ETC)			***
METABOLIC DISTURBANCE (FEVER,	TACHYCARDIA)		BY AGE	***
OVERALL PHYSICAL FITNESS	1110111 011110 1111,		BY AGE	***
OTHER APPROPRIATE EXAMINATION (S	SPECIFY)	YES		***
COMMENTS ON PHYSICAL EXAMINATION:	,	YES		***
CDECTAL DECUMPANTS:				
SPECIAL REQUIREMENTS:				
QUALIFICATIONS: CURRENT IMMUNIZATIONS		VEC	טע אלים	NΤΟ
IS HEPATITIS B VACCINE SERIES	COMDITTE OF	YES	BY AGE BY AGE	NO NO
PRIOR INFECTION DOCUMENTED?	COMPLETE OR	150	DI AGE	110
INTOK INTECTION DOCUMENTED:				

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- \*\*Chest x-ray is not required and should be requested at the discretion of the provider.
- \*\*\*Workers who have not had an examination within 12 months should have a termination examination.

REFERENCE: (5) (OTHER); 1. Qualification Standards, Fire Protection and Prevention Series, GS-081, July 1993; 2. DODINST 6055.6 DOD Fire and Emergency Services Program, 15 DEC 94; 3. National Fire Fighters Protection Association, (NFPA) Standard on Fire Department Safety and Occupational Health (NFPA 1500), 1997 Edition. 4. NFPA Standard on Medical Requirements for Fire Fighters, (NFPA 1582), 1997 Edition; 5. NFPA Standard on Fire Department Infection Control Plan, (NFPA 1581), 1997 Edition; 6. OSHA Standard 29 CFR 1910.1030; 7. Orris, Peter, Melius, James and Duffy, RM, Occupational Medicine: State of the Air Review Firefighters' Safety and Health, Volume 10/Number 14, Hanley & Beflus, Inc., Philadelphia, PA. PROGRAM REVIEWED: 1/98.

#### PROVIDER COMMENTS:

Program 707 provides guidelines for preplacement and periodic medical examinations. Program 722 provides guidelines for the annual medical evaluation, a medical screen to be done when the required periodic examination, Program 707, is not due. The extent of the medical evaluation and additional testing will depend on the firefighter's medical condition.

Reference (2) mandates the medical and physical criteria listed in references (3), (4) and (5). Reference (2) mandates that all personnel will participate in a physical fitness exercise program and shall be a special emphasis target group for DoD Components anti-smoking education programs.

References (2) and (4) contain conditions, by category, that are considered medically disqualifying. NOTE: The guidance in 5 CFR Part 339, "Medical Qualification Determinations", must be consulted on all civilian employees in which there is a question of worker fitness. The presence of a medically disqualifying condition does not automatically preclude continued work. This decision should be made by management with input from Occupational Medicine, Human Resources Office and possibly the worker's personal physician. Reference (6) considers public safety workers, policemen and Firefighters at risk for exposure to bloodborne pathogens. This risk is not universal since duties vary greatly between departments and locations. The purpose of requiring assessment of hepatitis B immune status is to determine the extent of potential exposure. Those who are felt to be at risk may be placed in Program 178, Blood and/or Body Fluids.

### PROGRAM FREQUENCY

<u>Aqe</u>		<u>Frequency</u>
29 and	under	Every three years
30-39		Every two years
40 and	over	Every year

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# 709 FOODSERVICE PERSONNEL

PROGRAM FREQUENCY: PREPLACEMENT

FOLLOWING ABSENCE FROM JOB FOR 30 DAYS OR MORE

EXAM ELEMENT	ELEMENT GIVEN FOR:			TERM
		LINE	ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?				
PERSONAL HISTORY OF:		MEG	NTO	NTO
MAJOR ILLNESS OR INJURY HOSPITALIZATION OR SURGERY		YES YES	NO	NO NO
			NO	
CANCER BACK INJURY		YES	NO	NO
	D MEER	YES	NO	NO
DO YOU DRINK 6 OR MORE DRINKS PE (BEER, WINE, LIQUOR)	R WEEK	YES	NO	NO
HAVE YOU EVER SMOKED		YES	NO	NO
DO YOU CURRENTLY SMOKE (PACKS/DA	Υ)	YES	NO	NO
HEART DISEASE, HIGH BLOOD PRESSU	•	YES	NO	NO
CURRENT MEDICATION USE (PRESCRIP		YES	NO	NO
MEDICATION ALLERGIES	,	YES	NO	NO
ANY REPRODUCTIVE HEALTH CONCERNS		YES	NO	NO
SKIN DISEASE		YES	NO	NO
HEPATITIS OR JAUNDICE		YES	NO	NO
TUBERCULOSIS		YES	NO	NO
INFECTIOUS DISEASE		YES	NO	NO
CHRONIC ABDOMINAL PAIN, VOMITING	, OTHER GI SYMPTOMS	YES	NO	NO
COMMENTS ON MEDICAL HISTORY:		YES	NO	NO
LABORATORY-				
ADDITIONAL LAB TESTS:				
APPROPRIATE BY THE PHYSICIAN		YES		NO
COMMENTS ON LABORATORY RESULTS:		YES	NO	NO
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	NO	NO
SPECIAL ATTENTION IN EXAMINATION T	0:			
SKIN (RASH, EROSION, ULCER, PIGM	ENT, ECZEMA, ETC)	YES	NO	NO
OTHER APPROPRIATE EXAMINATION (SPE	CIFY)	YES	NO	NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	NO	NO
CERTIFICATIONS PERFORMED IAW:				
NAVMED P-5010		YES	NO	NO
ASSESSMENT:		YES	NO	NO
RECOMMENDATIONS:		YES	NO	NO
MECOLIFIEDAT TONG.		1110	INO	INO

This program is required for preplacement exam. There is no requirement for a periodic examination. A situational examination is required when the employee has been out of foodservice duties for illness or for non-medical reasons longer than 30 days. REFERENCES: (OTHER); 1. 132200Z DEC 89; 2. Manual of Naval Preventive Medicine NAVMED P-5010. PROGRAM REVISED 10/97.

## PROVIDER COMMENTS:

The choice of additional examination elements and laboratory tests should be determined locally, based on Public Health regulations, if applicable. Individual considerations such as communicable disease risk in the community and medical and social history of the employee may affect the content of the exam. The concern is to avoid food-borne disease outbreaks. The focus of the exam is to identify potentially communicable conditions.

# 710 FORKLIFT OPERATOR

PROGRAM FREQUENCIES: TRIENNIAL

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HA	D?			
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)	YES	TRI-ENN	NO
MAJOR ILLNESS OR INJURY		YES	TRI-ENN	NO
HOSPITALIZATION OR SURGERY		YES	TRI-ENN	NO
CANCER		YES	TRI-ENN	NO
BACK INJURY		YES	TRI-ENN	NO
DO YOU DRINK 6 OR MORE DRINKS (BEER, WINE, LIQUOR)	PER WEEK	YES	TRI-ENN	NO
HAVE YOU EVER SMOKED		YES	TRI-ENN	NO
DO YOU CURRENTLY SMOKE (PACKS/	DAY)	YES	TRI-ENN	NO
HEART DISEASE, HIGH BLOOD PRES	SURE, OR STROKE	YES	TRI-ENN	NO
CURRENT MEDICATION USE (PRESCR	IPTION OR OTC)	YES	TRI-ENN	NO
MEDICATION ALLERGIES		YES	TRI-ENN	NO
ANY REPRODUCTIVE HEALTH CONCER		YES	TRI-ENN	NO
HEADACHE, DIZZINESS, LIGHT-HEA	DEDNESS, WEAKNESS	YES	TRI-ENN	NO
HEAD INJURY		YES	TRI-ENN	NO
CHANGE OR LOSS OF VISION		YES	TRI-ENN	NO
LOSS OR CHANGE IN HEARING		YES	TRI-ENN	NO
CHEST PAIN, ANGINA, HEART ATTA	CK, PALPITATIONS	YES	TRI-ENN	NO
EPILEPSY (SEIZURE DISORDER)		YES	TRI-ENN	NO
PROBLEMS WITH BALANCE AND COOR		YES	TRI-ENN	NO
PROBLEMS WITH NUMBNESS, TINGLI IN HANDS OR FEET	NG, WEAKNESS	YES	TRI-ENN	NO
DIABETES OR OTHER ENDOCRINE GL	AND DISORDER	YES	${\tt TRI-ENN}$	NO
MENTAL/EMOTIONAL ILLNESS		YES	${\tt TRI-ENN}$	NO
DEPRESSION, DIFF CONCENTRATING	, EXCESSIVE ANXIETY	YES	TRI-ENN	NO
PERSONALITY CHANGE		YES	TRI-ENN	NO
COMMENTS ON MEDICAL HISTORY:		YES	TRI-ENN	NO
LABORATORY:				
SERUM CHEMISTRY:				
BASELINE LIPID PROFILE		YES	NO	NO
ADDITIONAL LAB TESTS:				
BASELINE EKG/LIPID PROFILE ONC	E PAST AGE 40?	YES	TRI-ENN	NO
CARDIOLOGY: BASELINE ELECTROCARDIOGRAM		YES	NO	NO
AUDIOLOGY:			mp. =	
AUDIOGRAM OPTOMETRY		YES	TRI-ENN	NO
VISION SCREEN (VISUAL ACUITY)		YES	TRI-ENN	NO
COLOR VISION		YES	TRI-ENN	NO

EXAM ELEMENT E	LEMENT GIVEN	FOR:	BASE LINE	PERI ODIC	TERM EXAM
DEPTH PERCEPTION VISUAL FIELDS			YES YES	TRI-ENN	NO NO
COMMENTS ON LABORATORY RESULTS:			YES		NO
PHYSICAL EXAMINATION: REQUIRED WHEN POSITIVE HISTORY QUESTI	OMC ADE ODTAI	MED.			
VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION TO		NED.	YES	TRI-ENN	NO
CENTRAL NERVOUS SYSTEM			YES	TRI-ENN	NO
PERIPHERAL NERVOUS SYSTEM (STRENG	TH, SENSATION	I, DTR)	YES	TRI-ENN	NO
BACK & MUSCULOSKELETAL SYSTEM			YES	TRI-ENN	NO
CARDIOVASCULAR SYSTEM			YES	TRI-ENN	NO
EYES			YES	TRI-ENN	NO
EARS (TYMPANIC MEMBRANES)			YES	TRI-ENN	NO
OTHER APPROPRIATE EXAMINATION (SPEC	!IFY)		YES	TRI-ENN	NO
COMMENTS ON PHYSICAL EXAMINATION:			YES	TRI-ENN	NO
IS SURVEILLANCE/PPE CONSISTENT WITH E	XPOSURES LIST	TED BELOW	YES	TRI-ENN	NO
ARE ANY ABNORMALITIES RELATED TO EXPO	SURES/OCCUPAT	TIONS	YES	TRI-ENN	NO
RECOMMENDATIONS:			YES	TRI-ENN	NO

REFERENCES: (OTHER); 1. NAVSEA SW023-AH-WHM-010, Chapter 3; 2. NAVMED P-117, Chapter 15. PROGRAM REVISED 10/97.

## PROVIDER COMMENTS:

Civilian workers who operate MHE for handling ammunition and explosives must be examined under Program #720, Explosive Handler and Explosive Operators (Civilian).

#### 718 FREON WORKERS STRESSOR(S) IN THIS PROGRAM: NIOSH # CAS # КЈ4000000 76-13-1 1,1,2-TRICHLORO-1,2,2,-TRIFLUOROETHANE (FREON - 113) PROGRAM FREQUENCY: ANNUAL EXAM ELEMENT ELEMENT GIVEN FOR: BASE PERI TERM LINE ODIC EXAM MEDICAL HISTORY: HAVE YOU EVER HAD? PERSONAL HISTORY OF: IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15) YES ANNUAL NO MAJOR ILLNESS OR INJURY YES ANNUAL NO HOSPITALIZATION OR SURGERY YES ANNUAL NO YES ANNUAL NO CANCER BACK INJURY YES ANNUAL NO DO YOU DRINK 6 OR MORE DRINKS PER WEEK YES ANNUAL NO (BEER, WINE, LIQUOR) HAVE YOU EVER SMOKED YES ANNUAL NO DO YOU CURRENTLY SMOKE (PACKS/DAY) YES ANNUAL NO HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE YES ANNUAL NO YES ANNUAL NO CURRENT MEDICATION USE (PRESCRIPTION OR OTC) YES ANNUAL NO MEDICATION ALLERGIES ANY REPRODUCTIVE HEALTH CONCERNS YES ANNUAL NO YES ANNUAL NO SKIN DISEASE YES ANNUAL NO CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS SHORTNESS OF BREATH YES ANNUAL NO COMMENTS ON MEDICAL HISTORY: YES ANNUAL NO PHYSICAL EXAMINATION YES ANNUAL NO VITAL SIGNS SPECIAL ATTENTION IN EXAMINATION TO: CENTRAL NERVOUS SYSTEM YES ANNUAL NO CARDIOVASCULAR SYSTEM YES ANNUAL NO SKIN (RASH, EROSION, ULCER, PIGMENT, ECZEMA, ETC) YES ANNUAL NO YES ANNUAL NO OTHER APPROPRIATE EXAMINATION (SPECIFY) COMMENTS ON PHYSICAL EXAMINATION: YES ANNUAL NO IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW YES ANNUAL NO ARE ANY ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS YES ANNUAL NO LISTED BELOW YES ANNUAL NO **RECOMMENDATIONS:**

Workers exposed to FC-113 at or above the action level, i.e., one half or more of the permissible exposure limits (8-hour TWA) for more than 30 days a year or 10 days a quarter, should be placed in a medical surveillance program and scheduled for annual examinations. Workers should have a preplacement examination if they do not fit the criteria for placement in the medical surveillance program but have potential exposure to FC-113 above the Short Term Exposure Limit (STEL). REFERENCES: (OTHER); 1. Commander, Naval Sea Systems Command letter, 4734/9210 Ser 06C13C/1117 of 29 Oct 85; 2. Federal Register 54FR 2539-2541 Jan 19, 1989; 3. NIOSH Alert, Request for Assistance in Preventing Deaths from Excessive Exposure to Chlorofluorocarbon 113 (CFC-113); Occupational Health Guidelines for Fluorotrichloromethane, DHHS (NIOSH) Publication No. 81-123, January 1981. PROGRAM REVISED 10/97.

#### PROVIDER COMMENTS:

A limited number of freons have cardiac sensitizing effects. Interval history should stress intake of oral medications with cardiac sensitizing effects (epinephrine, norepinephrine, dopamine, isoprotenol and other sympathomimetic drugs used by asthmatics).

# 711 HAZARDOUS WASTE WORKERS AND EMERGENCY RESPONDERS

PROGRAM FREQUENCY: ANNUAL

OSHA STANDARD 29 CFR 1910.120

EXAM ELEMENT ELEMENT GIVEN FOR:		PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?			
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15	) YES	ANNUAL	YES
MAJOR ILLNESS OR INJURY	YES	ANNUAL	YES
HOSPITALIZATION OR SURGERY	YES	ANNUAL	YES
CANCER	YES	ANNUAL	YES
BACK INJURY	YES	ANNUAL	YES
DO YOU DRINK 6 OR MORE DRINKS PER WEEK (BEER, WINE, LIQUOR)	YES	ANNUAL	YES
HAVE YOU EVER SMOKED	YES	ANNUAL	YES
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	ANNUAL	YES
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	ANNUAL	YES
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)	YES	ANNUAL	YES
MEDICATION ALLERGIES	YES	ANNUAL	YES
ANY REPRODUCTIVE HEALTH CONCERNS	YES	ANNUAL	YES
ALLERGIES (ASTHMA, HAY FEVER, ECZEMA)	YES	ANNUAL	YES
SKIN DISEASE	YES	ANNUAL	YES
HEAT INJURY (CRAMPS, EXHAUSTION, STROKE)	YES	ANNUAL	YES
LUNG/RESP DISEASE (EX:COPD, BRONCHITIS, PNEUMONITIS)	YES	ANNUAL	YES
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS	YES	ANNUAL	YES
COLD INJURY(FROSTBITE, CHILL, TRENCH FT, HYPOTHERMIA	A) YES	ANNUAL	YES
CHANGE OR LOSS OF VISION	YES	ANNUAL	YES
LOSS OR CHANGE IN HEARING	YES	ANNUAL	YES
CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS	YES	ANNUAL	YES
SHORTNESS OF BREATH	YES	_	
CURRENT PREGNANCY (FEMALES ONLY)	YES	_	
EPILEPSY (SEIZURE DISORDER)	YES		
PROBLEMS WITH BALANCE AND COORDINATION	YES	ANNUAL	
PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS IN HANDS OR FEET	YES	ANNUAL	YES
THYROID DISEASE (HEAT OR COLD INTOLERANCE)	YES	ANNUAL	
MENTAL/EMOTIONAL ILLNESS WORK HISTORY OF:	YES	ANNUAL	YES
EXP TO SKIN IRRITANTS	YES	ANNUAL	YES
EXP TO RESPIRATORY IRRITANTS	YES	ANNUAL	YES
EXP TO CARCINOGENS	YES	ANNUAL	YES
COMMENTS ON MEDICAL HISTORY:	YES	ANNUAL	YES
LABORATORY HEMATOLOGY:			
COMPLETE BLOOD COUNT (HGB, HCT, WBC, MCV, MCH, MCHC)	YES	ANNUAL	YES
DIFFERENTIAL WHITE BLOOD CELL COUNT	YES	ANNUAL	
SERUM CHEMISTRY:	110	-11,11,01111	110

EXAM ELEMENT	ELEMENT P	PERFORMED	FOR:	BASE LINE	PERI ODIC	TERM EXAM
LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI., ALK. P. BASELINE LIPID PROFILE BUN AND CREATININE SGOT (AST)	PHOS				NO	YES NO YES YES
ADDITIONAL LAB TESTS: BASELINE EKG/LIPID PROFILE ONCE	PAST AGE	40?		YES	ANNUAL	YES
CARDIOLOGY:						
BASELINE ELECTROCARDIOGRAM				YES	NO	NO
AUDIOLOGY:						
AUDIOGRAM				YES	ANNUAL	YES
RADIOLOGY: CHEST X-RAY (PA)				YES	NO	YES
SPIROMETRY:				1110	110	1110
SPIROMETRY (FEV1, FVC, FEV1/FVC)				YES	ANNUAL	YES
OPTOMETRY:						
VISION SCREEN (VISUAL ACUITY)				YES	ANNUAL	YES
COLOR VISION					ANNUAL	
COMMENTS ON LABORATORY RESULTS:				YES	ANNUAL	YES
PHYSICAL EXAMINATION:						
VITAL SIGNS				YES	ANNUAL	YES
SPECIAL ATTENTION IN EXAMINATION T	:O:			110	1111101111	110
CENTRAL NERVOUS SYSTEM	-			YES	ANNUAL	YES
PERIPHERAL NERVOUS SYSTEM (STREN	IGTH, SENS	SATION, DI	rR)	YES	ANNUAL	YES
BACK & MUSCULOSKELETAL SYSTEM	·	•	•	YES	ANNUAL	YES
CARDIOVASCULAR SYSTEM				YES	ANNUAL	YES
EYES				YES	ANNUAL	YES
RESPIRATORY SYSTEM				YES	ANNUAL	YES
SKIN (RASH, EROSION, ULCER, PIGM	MENT, ECZE	EMA, ETC)		YES	ANNUAL	YES
THYROID				YES	ANNUAL	YES
METABOLIC DISTURBANCE (FEVER, TA	ACHYCARDIA	7)		YES	ANNUAL	YES
OBESITY				YES	ANNUAL	YES
OVERALL PHYSICAL FITNESS				YES	ANNUAL	YES
OTHER APPROPRIATE EXAMINATION (SPE	ECIFY)			YES	ANNUAL	YES
COMMENTS ON PHYSICAL EXAMINATION:				YES	ANNUAL	YES
SPECIAL NOTATIONS:						
PHYSICIAN'S WRITTEN OPINION REQUIR	RED			YES	ANNUAL	YES
IS SURVEILLANCE/PPE CONSISTENT WITH	EXPOSITEES	S LISTED F	RET.OW	YES	ANNUAL	YES
ARE ANY ABNORMALITIES RELATED TO EXPLISTED BELOW				YES		YES
RECOMMENDATIONS:				YES	ANNUAL	YES

REFERENCES: (OTHER): 1. 29 CFR 1910.120. PROGRAM REVISED 10/97.

### PROVIDER COMMENTS:

29 CFR 1910.120 establishes minimal medical surveillance for personnel who are or may be exposed to hazardous substances at or above the PEL for 30 days per year, wear a respirator 30 days per year, or sustain an overexposure incident involving hazardous substances. CFR requires an annual exam unless the attending physician feels longer intervals are appropriate. Under no circumstances should the frequency be less than every two years. A sample Physician's Written Opinion, required by OSHA, can be found in Appendix E.

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# 719 HEALTH CARE WORKERS (HCWs)

PROGRAM FREQUENCY: BASELINE

OSHA STANDARD 1910.1030

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE	PERI	TERM
		LINE	ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?				
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY CO	JRRENT (OPNAV 5100/15)	YES	NO	**
MAJOR ILLNESS OR INJURY		YES	NO	* *
HOSPITALIZATION OR SURGERY		YES	NO	**
CANCER		YES	NO	**
BACK INJURY		YES	NO	**
DO YOU DRINK 6 OR MORE DRINKS PE	CR WEEK	YES	NO	* *
(BEER, WINE, LIQUOR)				4.4.
HAVE YOU EVER SMOKED	>	YES	NO	**
DO YOU CURRENTLY SMOKE (PACKS/DA		YES	NO	**
HEART DISEASE, HIGH BLOOD PRESSU		YES	NO	**
CURRENT MEDICATION USE (PRESCRIE	PITION OR OTC)	YES	NO	**
MEDICATION ALLERGIES	_	YES	NO	**
ANY REPRODUCTIVE HEALTH CONCERNS		YES	NO	* *
ALLERGIES (ASTHMA, HAY FEVER, EC	CZEMA)	YES	NO	**
SKIN DISEASE		YES	NO	* *
RECURRENT SKIN RASH		YES	NO	* *
TUBERCULOSIS		YES	NO	* *
HEPATITIS OR JAUNDICE		YES	NO	* *
HISTORY OF CHICKEN POX		YES	NO	* *
CURRENT PREGNANCY (SELF OR SPOUS	•	YES	NO	* *
INFERTILITY OR MISCARRIAGE (SELE	F OR SPOUSE)	YES	NO	* *
ADVERSE REACTION TO EATING ANY V	/EGETABLE OR FRUIT	YES	NO	**
ADVERSE REACTION TO ANY RUBBER/I	LATEX CONTAINING PRODUCT	YES	NO	**
MULTIPLE OPERATIONS OR CHRONIC N	MEDICAL INSTRUMENTATION	YES	NO	**
UNEXPLAINED HIVES OR SYMPTOMS OF	F SHOCK	YES	NO	**
ITCHY EYES, RUNNY NOSE, RESPIRAT	TORY SYMPTOMS	YES	NO	**
WHEN USING LATEX GLOVES				
WORK HISTORY OF:				
EXP TO CHEMOTHERAPEUTIC/ANTINEOR	PLASTIC AGENTS	YES	NO	* *
EXP TO AEROSOLIZED ANTIBIOTICS/A	ANTIVIRALS	YES	NO	* *
EXP TO ANESTHETIC GASES		YES	NO	* *
EXP TO ETHYLENE OXIDE		YES	NO	* *
EXP TO IONIZING RADIATION		YES	NO	* *
EXP TO NON-IONIZING RADIATION (I	LASER, IR, MW, UV)	YES	NO	* *
EXP TO POTENTIALLY INFECTIOUS BO	DDY FLUIDS	YES	NO	* *
EXP TO FORMALDEHYDE		YES	NO	* *
REGULAR CONTACT WITH LATEX GLOVE	S OR OTHER	YES	NO	**
RUBBER PRODUCTS?				
COMMENTS ON MEDICAL HISTORY:		YES	NO	* *
LABORATORY:				
ADDITIONAL LAB TESTS:				
TUBERCULOSIS SCREEN		YES	ANNUAL	NO
COMMENTS ON LABORATORY RESULTS:		YES	ANNUAL	NO

EXAM ELEMENT	ELEMENT GIVE FOR:	BASE LINE	PERI ODIC	TERM EXAM
PHYSICAL EXAMINATION: VITAL SIGNS OTHER APPROPRIATE EXAMINATION (SIGNMENTS ON PHYSICAL EXAMINATION:	PECIFY)	YES YES YES	NO NO	* * * * * *
QUALIFICATIONS:  CURRENT IMMUNIZATIONS  MEASLES/MUMPS/RUBELLA IMMUNE STATE  VARICELLA IMMUNE STATUS  IS HEPATITIS B VACCINE SERIES COI  PRIOR INFECTION DOCUMENTED?		YES YES YES YES	* NO NO NO	* * * * * *
IS SURVEILLANCE/PPE CONSISTENT WITH ARE ANY ABNORMALITIES RELATED TO EX LISTED BELOW RECOMMENDATIONS:		YES YES YES	NO NO	* * * *

This program provides for a baseline review of immunization status and history. \*Health Care Workers should be included in the annual record review for immunization requirements. \*\*A termination examination provides an opportunity to review the medical record and document any medical conditions and concerns. REFERENCES: (OTHER); 1. OSHA Standard 1910.1030; 2. NIOSH, Guidelines for prevention of transmission of human immunodeficiency virus and hepatitis B virus to health-care and public-safety workers, 1989, DHHS (NIOSH) Pub. No. 89-107, US Government Printing Office, Washington, D.C.; 3. Center for Disease Control and Prevention Morbidity and Mortality Weekly Report "Guidelines for Preventing the Transmission of Mycobacterium Tuberculosis in Healthcare Facilities, 28 Oct 1994, Volume 43, No. RR-13; 4. McDiarmid MA, Kessler, ER, The Health Care Worker, Occupational Medicine State of the Art Reviews, Vol. 12/Number 4, Oct-Dec 1997, Hanley & Belfus, Inc. PROGRAM REVISED 10/97.

### PROVIDER COMMENTS:

A screening form for latex allergy is available in the Navy Environmental Health Center Occupational Medicine Field Operations Manual. The immunization requirements promulgated by the various references can be summarized as follows:

- A. Hepatitis B vaccine series is required for those medical and dental workers with exposure or potential exposure to blood or body fluids unless there is a contraindication. Those with exposure to blood and other infectious bodily fluids should be placed in Program 178.
- B. HCWs who have no history of varicella or serologic evidence of immunity should be counseled to report varicella exposure to the clinic since patient care restrictions may be appropriate 8 21 days after exposure. Those HCWs who work in patient care and have not had varicella should have varicella antibody measured.

- C. Immunizations against tetanus and diphtheria should be current.
- D. Immunity to measles, mumps and rubella is required. This requirement can be met by documentation of physician-diagnosed illness (except rubella), serologic evidence of immunity, or documented immunization (for measles, 2 doses 1 month apart after 1 year of age in individuals born in or after 1957 is required).
- E. It is reasonable to obtain rubella antibody titer for females of child-bearing age as part of the pre-employment exam.
- F. Specific requirements are contained in the instructions listed in the program description.
- G. Guidance on periodic screening and the booster phenomenon is covered in reference (3).
  - H. Annual influenza immunization for HCWs is recommended.

There is no specific exam required. The content of the exam and assignment to specific stressors are determined by review of responses to history questions and further interview of the worker as deemed appropriate. Health care workers are potentially exposed to a wide variety of chemical, physical and biologic agents. These exposures may change over time. Annual update of work exposures allows for adjustment of exposure programs as appropriate.

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# 721 MILITARY DOT, EXPLOSIVE HANDLER/VEHICLE OPERATORS (INTERIM EXAMINATION)

PROGRAM FREQUENCY: BY AGE

EXAM ELEMENT	ELEMENT GIVEN FOR:	PERI ODIC
MEDICAL HISTORY:  IS YOUR WORK EXPOSURE HISTOR SINCE LAST SF 88/93 PHYSICAL H MAJOR ILLNESS OR INJURY		* * * * * * * * *
HOSPITALIZATION OR SURGERY CANCER		***
BACK INJURY		***
DO YOU DRINK 6 OR MORE DRINK HAVE YOU EVER SMOKED	S PER WEEK	***
DO YOU CURRENTLY SMOKE (PACK	S/DAY)	***
HEART DISEASE, HIGH BLOOD PR		***
CURRENT MEDICATION USE (PRES	CRIPTION OR OTC)	* * *
MEDICATION ALLERGIES USE OF SEAT BELTS (ALWAYS, M	OSTLY, SOME, NONE)	***
ANY REPRODUCTIVE HEALTH CONC	ERNS	***
LUNG/RESP DISEASE (EX:COPD,	BRONCHITIS, PNEUMONITIS)	***
SYPHILIS OR GONORRHEA HEADACHE, DIZZINESS, LIGHT-H	EADEDNESS WEAKNESS	***
NERVOUS STOMACH OR ULCER	ELECTION AND MINISTER	***
HEAD INJURY		***
CHANGE OR LOSS OF VISION		* * *
LOSS OR CHANGE IN HEARING CHEST PAIN, ANGINA, HEART AT	TACK PALPITATIONS	***
KIDNEY DISEASE	men, men man men en e	***
EPILEPSY (SEIZURE DISORDER)		***
PROBLEMS WITH BALANCE AND CO		***
PROBLEMS WITH NUMBNESS, TING IN HANDS OR FEET	LING, WEAKNESS IN	^ ^ ^
MIGRAINE HEADACHE		***
DIABETES OR OTHER ENDOCRINE	GLAND DISORDER	***
MENTAL/EMOTIONAL ILLNESS		***
DEPRESSION, DIFF CONCENTRATI TREATMENT FOR DRUG OR ALCOHO	•	***
PERSONALITY CHANGE	L 05E	***
MUSCLE OR JOINT PROBLEMS		***
PERMANENT DEFECT FROM ILLNES	S, DISEASE OR INJURY	***
FAMILY HISTORY OF:	ARGGIRE OR GEROVE	***
HEART DISEASE, HIGH BLOOD PR COMMENTS ON MEDICAL HISTORY:	ESSURE, UR STRUKE	***

EXAM ELEMENT ELEMENT GIVEN FOR: PERI ODIC PHYSICAL EXAMINATION:

VITAL SIGNS \*\*\*

COMMENTS ON PHYSICAL EXAMINATION: \*\*\*

IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW \*\*\*

ARE ANY ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS \*\*\*

LISTED BELOW \*\*\*

F 88/93 REVIEWED AND FOUND COMPLETE \*\*\*

RECOMMENDATIONS: \*\*\*

#### PROGRAM DESCRIPTION:

Medical examinations of explosive handlers and Hazardous Material Vehicle Operators are conducted to ensure active duty personnel who handle explosives or operate vehicles or machinery which transport explosive or other hazardous material are physically qualified. This program is designed to provide a screen at an interim basis when the required periodic examination is not due. This program is used to review interim history, document vital signs, document that the SF 88 and SF 93 from the most recent examination were reviewed, and certification based on the review of a current periodic physical examination. If a complete physical examination is required, the SF 88 and SF 93 should be used for documentation following the requirements of MANMED.

Military personnel are exempt from the requirements of the Commercial Motor Vehicle Safety Act of 1986, and, in particular, from the requirements of 49 CFR Part 383 regarding physical examination requirements in order to obtain a commercial drivers license. The scope of the periodic examinations is considered sufficient to meet the requirements. The periodicity of examinations for active duty and reserve military personnel is outlined in the MANMED. Active duty members must meet the standards of MANMED, chapter 15, section III, with particular emphasis on the systems listed in that section. Navy Explosive Ordnance Disposal personnel must also meet the requirements of article 15-66.

REFERENCES: (OTHER); Manual of the Medical Department, U.S. Navy, NAVMED P-117, Change 109. 2. Hartenbaum, N. The DOT Medical Examination, OEM Press, Boston, MA 1997. PROGRAM REVISED 10/97.

## Periodicity:

Active duty military personnel who are explosive handlers or hazardous material vehicle operators will have a medical examination per the periodicity in MANMED, article 15-11.

# 712 MOTOR VEHICLE OPERATOR (OTHER THAN DOT)

PROGRAM FREQUENCY: BY AGE

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
MEDICAL HISTORY: HAVE YOU EV PERSONAL HISTORY OF:	ER HAD?			
IS YOUR WORK EXPOSURE HIS	TORY CURRENT (OPNAV 5100/15)	YES	***	NO
MAJOR ILLNESS OR INJURY		YES	***	NO
HOSPITALIZATION OR SURGER	Y	YES	***	NO
CANCER		YES	***	NO
BACK INJURY		YES	***	NO
DO YOU DRINK 6 OR MORE DR (BEER, WINE, LIQUOR)	INKS PER WEEK	YES	***	NO
HAVE YOU EVER SMOKED		YES	***	NO
DO YOU CURRENTLY SMOKE (P	ACKS/DAY)	YES	***	NO
HEART DISEASE, HIGH BLOOD	PRESSURE, OR STROKE	YES	***	NO
CURRENT MEDICATION USE (P	RESCRIPTION OR OTC)	YES	***	NO
MEDICATION ALLERGIES		YES	***	NO
USE OF SEAT BELTS (ALWAYS	, MOSTLY, SOME, NONE)	YES	***	NO
ANY REPRODUCTIVE HEALTH C	ONCERNS	YES	***	NO
HEADACHE, DIZZINESS, LIGH	T-HEADEDNESS, WEAKNESS	YES	***	NO
HEAD INJURY		YES	***	NO
CHANGE OR LOSS OF VISION		YES	***	NO
LOSS OR CHANGE IN HEARING	}	YES	***	NO
CHEST PAIN, ANGINA, HEART	ATTACK, PALPITATIONS	YES	***	NO
EPILEPSY (SEIZURE DISORDE	R)	YES	***	NO
PROBLEMS WITH BALANCE AND	COORDINATION	YES	***	NO
PROBLEMS WITH NUMBNESS, T IN HANDS OR FEET	INGLING, WEAKNESS	YES	***	NO
DIABETES OR OTHER ENDOCRI	NE GLAND DISORDER	YES	***	NO
MENTAL/EMOTIONAL ILLNESS		YES	***	NO
DEPRESSION, DIFF CONCENTR	ATING, EXCESSIVE ANXIETY	YES	* * *	NO
PERSONALITY CHANGE		YES	***	NO
COMMENTS ON MEDICAL HISTORY:		YES	***	NO
LABORATORY:				
SERUM CHEMISTRY:				
BASELINE LIPID PROFILE		YES	NO	NO
URINALYSIS:				
ROUTINE:				
URINALYSIS WITH MICROSC	OPIC	YES	***	NO
ADDITIONAL LAB TESTS:				
BASELINE EKG/LIPID PROFIL	E ONCE PAST AGE 40?	YES	***	NO
CARDIOLOGY:				
BASELINE ELECTROCARDIOGRA	M	YES	NO	NO
AUDIOLOGY-				
AUDIOGRAM		YES	***	NO

EXAM ELEMENT ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
OPTOMETRY:		ODIC	
VISION SCREEN (VISUAL ACUITY)	YES	***	NO
VISUAL FIELDS	YES	***	NO
COMMENTS ON LABORATORY RESULTS:	YES	***	NO
PHYSICAL EXAMINATION:			
REQUIRED WHEN POSITIVE HISTORY QUESTIONS ARE OBTAINED:			
VITAL SIGNS	YES	***	NO
SPECIAL ATTENTION IN EXAMINATION TO:			
CENTRAL NERVOUS SYSTEM	YES	***	NO
PERIPHERAL NERVOUS SYSTEM (STRENGTH, SENSATION, DTR)	YES		NO
BACK & MUSCULOSKELETAL SYSTEM	YES	***	NO
CARDIOVASCULAR SYSTEM	YES	***	NO
EYES	YES	* * *	NO
EARS (TYMPANIC MEMBRANES)	YES	***	NO
OTHER APPROPRIATE EXAMINATION (SPECIFY)	YES	***	NO
COMMENTS ON PHYSICAL EXAMINATION:	YES	***	NO
IS SURVEILLANCE/PPE CONSISTENT WITH EXPOSURES LISTED BELOW	YES	***	NO
ARE ANY ABNORMALITIES RELATED TO EXPOSURES/OCCUPATIONS	YES	***	NO
LISTED BELOW	VE C	***	NTO
RECOMMENDATIONS:	YES		NO

At least once every 4 years, each agency will ensure that employees who operate Government-owned or leased vehicles are medically able to do so without undue risk to themselves or others. When there is a question about an employee's ability to operate a motor vehicle safely, the employee may be referred for a medical examination in accordance with the provisions of 5 CFR Part 339, Medical Qualification Determinations.

Form OF 345, Physical Fitness Inquiry for Motor Vehicle Operators, is used by licensing examiners to screen health status.

This program, #712, can be used to meet local requirements for performing periodic medical examinations when requested.

REFERENCES: (Other); 1. 5 CFR Part 930.108, Subpart A-Motor Vehicle Operators; 2. 5 CFR Part 339. PROGRAM REVISED 10/97.

### PROVIDER COMMENTS:

Guidelines for examinations for interstate driving and any driver covered by Federal Motor Carrier Safety regulations, 49 CFR 391.41-49, Subpart E, are contained in Program #706.

# 713 NAVAL CRIMINAL INVESTIGATIVE SERVICE

PROGRAM FREQUENCY: BY AGE

~				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE	PERI	TERM
	]	LINE	ODIC	EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD?				
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY CUP	RRENT (OPNAV 5100/15)	YES	BY AC	E NO
MAJOR ILLNESS OR INJURY	7	YES	BY AC	E NO
HOSPITALIZATION OR SURGERY	7	YES	BY AC	E NO
CANCER	7	YES	BY AC	E NO
BACK INJURY	7	YES	BY AC	E NO
DO YOU DRINK 6 OR MORE DRINKS PER	R WEEK	YES	BY AC	E NO
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED	7	YES	BY AC	E NO
DO YOU CURRENTLY SMOKE (PACKS/DAY	Y)	YES	BY AC	E NO
HEART DISEASE, HIGH BLOOD PRESSUF	RE, OR STROKE	YES	BY AC	E NO
CURRENT MEDICATION USE (PRESCRIPT	TION OR OTC)	YES	BY AC	E NO
MEDICATION ALLERGIES	7	YES	BY AC	E NO
ANY REPRODUCTIVE HEALTH CONCERNS	7	YES	BY AC	E NO
HEART DISEASE, HIGH BLOOD PRESSUR	RE OR STROKE	YES	BY AC	E NO
TUBERCULOSIS	•	YES	BY AC	
COMMUNICABLE DISEASE		YES	BY AC	
NERVOUS STOMACH OR ULCER		YES	BY AC	
LOSS OR CHANGE IN HEARING		YES	BY AC	
EPILEPSY (SEIZURE DISORDER)		YES	BY AC	
EPILEPSY (SEIZURE DISORDER) MENTAL/EMOTIONAL ILLNESS		YES YES	BY AC	
	3			
MENTAL/EMOTIONAL ILLNESS	ISEASE OR INJURY	YES	BY AC	E NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI	ISEASE OR INJURY	YES YES	BY AC	E NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI COMMENTS ON MEDICAL HISTORY:  LABORATORY-	ISEASE OR INJURY	YES YES	BY AC	E NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY:	ISEASE OR INJURY	YES YES	BY AC	E NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, W	ISEASE OR INJURY	YES YES	BY AC	FE NO NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, W SERUM CHEMISTRY:	ISEASE OR INJURY	YES YES	BY AC	FE NO NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, W SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE:	SEASE OR INJURY	YES YES YES	BY AC	FE NO NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, W SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE: BUN, CREATININE, URIC ACID, CAI	USEASE OR INJURY	YES YES	BY AC	SE NO NO SE NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, W SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE: BUN, CREATININE, URIC ACID, CAI TOT. BILI., ALK. PHOS, SGOT (AS	USEASE OR INJURY	YES YES YES	BY AC	SE NO NO SE NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, W SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE: BUN, CREATININE, URIC ACID, CAI TOT. BILI., ALK. PHOS, SGOT (AS LIVER PROFILE TO INCLUDE:	USEASE OR INJURY	YES YES YES	BY AC BY AC BY AC	SE NO SE NO SE NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, W SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE: BUN, CREATININE, URIC ACID, CAI TOT. BILI., ALK. PHOS, SGOT (AS	USEASE OR INJURY	YES YES YES	BY         AC           NO         BY         AC           BY         AC           BY         AC           BY         AC           BY         AC	SE NO SE NO SE NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, W SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE: BUN, CREATININE, URIC ACID, CAI TOT. BILI., ALK. PHOS, SGOT (AS LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI., ALK. PH CHOLESTEROL	SEASE OR INJURY  WBC, MCV, MCH, MCHC)  LCIUM, ST)  HOS	YES YES YES YES YES YES YES	BY AC BY AC BY AC BY AC BY AC BY AC	SE NO SE NO SE NO SE NO SE NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, W SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE: BUN, CREATININE, URIC ACID, CAI TOT. BILI., ALK. PHOS, SGOT (AS LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI., ALK. PH	SEASE OR INJURY  WBC, MCV, MCH, MCHC)  LCIUM, ST)  HOS	YES YES YES YES	BY         AC           NO         BY         AC           BY         AC           BY         AC           BY         AC           BY         AC	SE NO SE NO SE NO SE NO SE NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, W SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE: BUN, CREATININE, URIC ACID, CAI TOT. BILI., ALK. PHOS, SGOT (AS LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI., ALK. PH CHOLESTEROL	SEASE OR INJURY  WBC, MCV, MCH, MCHC)  LCIUM, ST)  HOS	YES YES YES YES YES YES YES	BY AC BY AC BY AC BY AC BY AC BY AC	SE NO SE NO SE NO SE NO SE NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, W SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE: BUN, CREATININE, URIC ACID, CAI TOT. BILI., ALK. PHOS, SGOT (AS LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI., ALK. PH CHOLESTEROL TRIGLYCERIDES URINALYSIS: ROUTINE:	ISEASE OR INJURY  WBC, MCV, MCH, MCHC)  LCIUM, ST)  HOS	YES YES YES YES YES YES YES YES	BY AC	SE NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, W SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE: BUN, CREATININE, URIC ACID, CAI TOT. BILI., ALK. PHOS, SGOT (AS LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI., ALK. PH CHOLESTEROL TRIGLYCERIDES URINALYSIS: ROUTINE: URINALYSIS WITH MICROSCOPIC	ISEASE OR INJURY  WBC, MCV, MCH, MCHC)  LCIUM, ST)  HOS	YES YES YES YES YES YES	BY AC BY AC BY AC BY AC BY AC BY AC	SE NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, WI SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE: BUN, CREATININE, URIC ACID, CAI TOT. BILI., ALK. PHOS, SGOT (ASI LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI., ALK. PHO CHOLESTEROL TRIGLYCERIDES URINALYSIS: ROUTINE: URINALYSIS WITH MICROSCOPIC CARDIOLOGY-	ISEASE OR INJURY  WBC, MCV, MCH, MCHC)  LCIUM, ST)  HOS	YES YES YES YES YES YES YES YES	BY AC	SE NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, WI SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE: BUN, CREATININE, URIC ACID, CAI TOT. BILI., ALK. PHOS, SGOT (ASI LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI., ALK. PHO CHOLESTEROL TRIGLYCERIDES URINALYSIS: ROUTINE: URINALYSIS WITH MICROSCOPIC CARDIOLOGY- ELECTROCARDIOGRAM	ISEASE OR INJURY  WBC, MCV, MCH, MCHC)  LCIUM, ST)  HOS	YES YES YES YES YES YES YES YES	BY AC	SE NO
MENTAL/EMOTIONAL ILLNESS PERMANENT DEFECT FROM ILLNESS, DI  COMMENTS ON MEDICAL HISTORY:  LABORATORY- HEMATOLOGY: COMPLETE BLOOD COUNT (HGB, HCT, WI SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE: BUN, CREATININE, URIC ACID, CAI TOT. BILI., ALK. PHOS, SGOT (ASI LIVER PROFILE TO INCLUDE: SGOT (AST), TOT. BILI., ALK. PHO CHOLESTEROL TRIGLYCERIDES URINALYSIS: ROUTINE: URINALYSIS WITH MICROSCOPIC CARDIOLOGY-	ISEASE OR INJURY  WBC, MCV, MCH, MCHC)  LCIUM, ST)  HOS	YES YES YES YES YES YES YES YES	BY AC	SE NO

EXAM ELEMENT:	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
RADIOLOGY CHEST X-RAY (PA) OPTOMETRY-		YES	NO	NO
VISION SCREEN (VISUAL ACUITY) COLOR VISION DEPTH PERCEPTION COMMENTS ON LABORATORY RESULTS:		YES YES YES YES	BY AGE BY AGE BY AGE BY AGE	NO
PHYSICAL EXAMINATION: VITAL SIGNS OTHER APPROPRIATE EXAMINATION (S COMMENTS ON PHYSICAL EXAMINATION:	PECIFY)	YES YES YES	BY AGE BY AGE BY AGE	NO NO
CERTIFICATIONS PERFORMED IAW: NCIS MANUAL FOR ADMINISTRATION REVIEW OF FUNCTIONAL/ENVIRONMENTAL	REQUIREMENTS OF SF 78	YES YES	BY AGE BY AGE	NO NO
IS SURVEILLANCE/PPE CONSISTENT WIT ARE ANY ABNORMALITIES RELATED TO E LISTED BELOW		YES YES	BY AGE BY AGE	NO NO
RECOMMENDATIONS:		YES	BY AGE	NO

\*\*\*The EKG is given every 5 years beginning at age 35. REFERENCES: (OTHER); 1. NCIS Administrative Manual, NCIS-1, Chapter 13; 2. OSHA Standard 1910.1030. PROGRAM REVIEWED 1/98.

#### PROVIDER COMMENTS:

OSHA Regulation 1910.1030 considers public safety workers, including both policemen and firefighters at risk for exposure to bloodborne pathogens. This risk is not universal since duties of public safety workers vary greatly between departments and locations. The purpose of the requirement for assessment of hepatitis B immune status is to determine for the individual the extent of potential exposure. Those who are felt to be at significant risk may be placed in Program 178, Blood and/or Body Fluids.

Weight certification is required for NCIS agents. Weight certification is accomplished by completing the weight range chart (addendum 2, NCIS-1, Chapter 13) provided with the SF 78 at each examination and annually.

PC Matrix is an acceptable form for this examination. Original forms are submitted for headquarters review. A copy of the examination should be kept in a health record. Certificate of Medical Examination, SF 78, is used for preplacement examinations.

### PROGRAM FREQUENCY

Age	Frequency
Up to 37 years	Tri-ennial
Age 38 to 40 years	Bi-ennial
Age 41 and over	Annual

# 714 POLICE/GUARD SECURITY

PROGRAM FREQUENCY: BY AGE

EXAM ELEMENT GIVEN FOR:		PERI	
MEDICAL HISTORY: HAVE YOU EVER HAD?	LINE	ODIC	EXAM
PERSONAL HISTORY OF:			
IS YOUR WORK EXPOSURE HISTORY CURRENT (OPNAV 5100/15	) YES	BY AGE	NO
MAJOR ILLNESS OR INJURY	YES	BY AGE	
HOSPITALIZATION OR SURGERY	YES	BY AGE	
CANCER	YES	BY AGE	
BACK INJURY	YES	BY AGE	-
DO YOU DRINK 6 OR MORE DRINKS PER WEEK	YES	BY AGE	
(BEER, WINE, LIQUOR)	120	D1 1101	110
HAVE YOU EVER SMOKED	YES	BY AGE	NO
DO YOU CURRENTLY SMOKE (PACKS/DAY)	YES	BY AGE	NO
HEART DISEASE, HIGH BLOOD PRESSURE, OR STROKE	YES	BY AGE	NO
CURRENT MEDICATION USE (PRESCRIPTION OR OTC)		BY AGE	NO
MEDICATION ALLERGIES	YES	BY AGE	NO
ANY REPRODUCTIVE HEALTH CONCERNS	YES	BY AGE	NO
HEADACHE, DIZZINESS, LIGHT-HEADEDNESS, WEAKNESS	YES	BY AGE	NO
CHANGE OR LOSS OF VISION	YES	BY AGE	NO
LOSS OR CHANGE IN HEARING	YES	BY AGE	NO
CHEST PAIN, ANGINA, HEART ATTACK, PALPITATIONS	YES	BY AGE	NO
SHORTNESS OF BREATH	YES	BY AGE	NO
EPILEPSY (SEIZURE DISORDER)	YES	BY AGE	NO
PROBLEMS WITH BALANCE AND COORDINATION	YES	BY AGE	NO
PROBLEMS WITH NUMBNESS, TINGLING, WEAKNESS IN HANDS OR FEET	YES	BY AGE	NO
THYROID DISEASE (HEAT OR COLD INTOLERANCE)	YES	BY AGE	NO
DIABETES OR OTHER ENDOCRINE GLAND DISORDER	YES	BY AGE	NO
MENTAL/EMOTIONAL ILLNESS	YES	BY AGE	NO
DEPRESSION, DIFF CONCENTRATING, EXCESSIVE ANXIETY	YES	BY AGE	NO
PERSONALITY CHANGE	YES	BY AGE	NO
WORK HISTORY:			
EXPOSURE TO POTENTIALLY INFECTIOUS BODY FLUIDS	YES	BY AGE	-
COMMENTS ON MEDICAL HISTORY:	YES	BY AGE	NO
LABORATORY- SERUM CHEMISTRY: BASIC PROFILE TO INCLUDE: BUN, CREATININE, URIC ACID, CALCIUM,	YES	BY AGE	NO
TOTAL BILIRUBIN, ALK. PHOS., SGOT (AST)	ILD	DI AGE	INO
BASELINE LIPID PROFILE	YES	NO	NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
URINALYSIS:				
ROUTINE:				
URINALYSIS WITH MICROSCOPIC ADDITIONAL LAB TESTS:		YES	BY AG	E NO
BASELINE EKG/LIPID PROFILE ONC	E DACT ACE 403	YES	BY AG	E NO
CARDIOLOGY:	E PASI AGE 40:	165	DI AC	E NO
BASELINE ELECTROCARDIOGRAM		YES	NO	NO
AUDIOLOGY:		125	110	110
AUDIOGRAM		YES	BY AG	E NO
OPTOMETRY:				
VISION SCREEN (VISUAL ACUITY)		YES	BY AG	E NO
COMMENTS ON LABORATORY RESULTS:		YES	BY AC	E NO
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	BY AG	E NO
SPECIAL ATTENTION IN EXAMINATION	TO:	120	D1 110	1.0
CENTRAL NERVOUS SYSTEM		YES	BY AG	E NO
PERIPHERAL NERVOUS SYSTEM (STR	ENGTH, SENSATION, DTR)	YES	BY AG	E NO
BACK & MUSCULOSKELETAL SYSTEM		YES	BY AC	E NO
CARDIOVASCULAR SYSTEM		YES	BY AG	E NO
EYES		YES	BY AG	
RESPIRATORY SYSTEM		YES	BY AG	E NO
EARS (TYMPANIC MEMBRANES)		YES	BY AG	E NO
SKIN-WITH REGARD TO MALIGNANT 8	PRE-MALIGNANT COND	YES	BY AG	E NO
THYROID		YES	BY AG	E NO
METABOLIC DISTURBANCE (FEVER, 1	FACHYCARDIA)	YES	BY AG	E NO
OVERALL PHYSICAL FITNESS		YES	BY AG	E NO
OTHER APPROPRIATE EXAMINATION (S	PECIFY)	YES	BY AC	E NO
COMMENTS ON PHYSICAL EXAMINATION:		YES	BY AG	E NO
QUALIFICATIONS:				
CURRENT IMMUNIZATIONS		YES	BY AG	E NO
IS HEPATITIS B SERIES COMPLETE OF	₹	YES	BY AG	E NO
PRIOR INFECTION DOCUMENTED?				
IS SURVEILLANCE/PPE CONSISTENT WITH	H EXPOSURES LISTED BELOW	YES	BY AC	E NO
ARE ANY ABNORMALITIES RELATED TO EX	XPOSURES/OCCUPATIONS	YES	BY AG	E NO
LISTED BELOW				
RECOMMENDATIONS:		YES	BY AG	E NO

REFERENCES: (OTHER); 1. OSHA Standard 1910.1030; 2. 5 CFR 930; 3. X-118 Series GS-083. PROGRAM REVISED 10/97;

### PROVIDER COMMENTS:

OSHA Regulation considers public safety workers, including both policemen and firefighters, at risk for exposure to bloodborne pathogens. This risk is not universal since duties of public safety workers vary greatly between departments and locations. The purpose of the requirement for assessment of hepatitis B immune status is to determine for the individual the extent of potential exposure. Those who are felt to be at significant risk may be placed in Program 178, Blood and/or Body Fluids.

Local activities may have more stringent examination and frequency requirements. If local requirements are more stringent, the medical clinic should keep a copy of written requirements for additional tests.

Tetanus immunization should be kept current.

### PROGRAM FREQUENCY

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Age	Frequency
Up to 34 years	Every five years
35 to 44 years	Bi-ennial
45+ years	Annual

## BLANK FOR PRINTER

PROGRAM FREQUENCY: BY AGE

## OSHA STANDARD 29 CFR 1910.134

EXAM	ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		RI [C	TERM EXAM
	HISTORY: HAVE YOU EVER HAD?	?	TIME	OD		EZAM
	YOUR WORK EXPOSURE HISTORY C	JRRENT (OPNAV 5100/15)	YES	BY	AGE	NO
MAJ	OR ILLNESS OR INJURY		YES	BY	AGE	NO
HOS	PITALIZATION OR SURGERY		YES	BY	AGE	NO
CAN	CER		YES	BY	AGE	NO
BAC	K INJURY		YES	BY	AGE	NO
(	YOU DRINK 6 OR MORE DRINKS PI BEER, WINE, LIQUOR)	ER WEEK	YES		AGE	NO
	E YOU EVER SMOKED		YES		AGE	
	YOU CURRENTLY SMOKE (PACKS/DA	•	YES		AGE	NO
	RT DISEASE, HIGH BLOOD PRESSU		YES		AGE	NO
	RENT MEDICATION USE (PRESCRI	PITION OR OTC)	YES		AGE	NO
	ICATION ALLERGIES		YES		AGE	
	REPRODUCTIVE HEALTH CONCERNS ERGIES (ASTHMA, HAY FEVER, EG		YES YES		AGE AGE	
	ERGIES (ASIMMA, MAI FEVER, EC N DISEASE	CZEMA)	YES		AGE	
	G/RESP DISEASE (EX: COPD, BRO	ONCHITTS DNFIMONITTS)	YES		AGE	
	EZING	SNCIIIIIS, INEONOMIIIS,	YES		AGE	NO.
	ERCULOSIS		YES		AGE	NO
_	OF EYE GLASSES		YES		AGE	NO
	TACT LENS USE		YES		AGE	NO
	S OF VISION IN EITHER EYE		YES		AGE	NO
_	OR BLINDNESS		YES		AGE	NO
	IRRITATION		YES		AGE	NO
	OTHER EYE OR VISION PROBLEM		YES		AGE	NO
	BILTIY TO SMELL		YES		AGE	NO
	INJURY TO YOUR EARS		YES	BY	AGE	NO
RUP	TURED EAR DRUM		YES	BY	AGE	NO
LOS	S OR CHANGE IN HEARING		YES	BY	AGE	NO
A N	EED TO WEAR A HEARING AID		YES	BY	AGE	NO
ANY	OTHER HEARING OR EAR PROBLEM	vī.	YES	BY	AGE	NO
	ST PAIN, ANGINA, HEART ATTACE		YES	BY	AGE	NO
FRE	QUENT PAIN OR TIGHTNESS IN YO	OUR CHEST	YES	BY	AGE	NO
SWE	LLING IN LEGS OR FEET (NOT CA	AUSED BY WALKING)	YES	BY	AGE	NO
ANY	OTHER HEART PROBLEM YOU'VE I	BEEN TOLD ABOUT	YES	BY	AGE	NO
SHO	RTNESS OF BREATH		YES	BY	AGE	NO
COU	GH (DRY OR PRODUCTIVE)		YES	BY	AGE	NO
	RENT PREGNANCY (FEMALES ONLY)	)	YES	BY	AGE	NO
EPI	LEPSY (SEIZURE DISORDER)		YES	BY	AGE	NO
	BLEMS WITH BALANCE AND COORD		YES		AGE	NO
I	BLEMS WITH NUMBNESS, TINGLING N HANDS OR FEET		YES		AGE	NO
	BETES OR OTHER ENDOCRINE GLAN	ND DISORDER	YES		AGE	NO
	TAL/EMOTIONAL ILLNESS		YES		AGE	NO
	USTROPHOBIA		YES		AGE	NO
MUS	CLE OR JOINT PROBLEMS		YES	BY	AGE	NO

ANY OTHER MUSCLE OR SKELETAL PROBLEM THAT MAY INTERFERE YES BY AGE NO WITH USING A RESPIRATOR

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE	PERI ODIC	TERM EXAM
WORK HISTORY OF: PRIOR RESPIRATOR USE IF YES, ANY PROBLEMS THAT IN COMMENTS ON MEDICAL HISTORY:	NTERFERED WITH USE	YES YES YES	BY AGE BY AGE	NO
PHYSICAL EXAMINATION: VITAL SIGNS HEIGHT WEIGHT		YES YES YES	BY AGE BY AGE	NO
SPECIAL ATTENTION IN EXAMINATION TO CARDIOVASCULAR SYSTEM EYES RESPIRATORY SYSTEM EARS (TYMPANIC MEMBRANES) SKIN (RASH, EROSION, ULCER, POOTHER APPROPRIATE EXAMINATION (SCOMMENTS ON PHYSICAL EXAMINATION)	IGMENT, ECZEMA, ETC)	YES YES YES YES YES YES	BY AGE BY AGE BY AGE BY AGE BY AGE BY AGE	NO NO NO NO
IS SURVEILLANCE/PPE CONSISTENT WIT ARE ANY ABNORMALITIES RELATED TO E LISTED BELOW RECOMMENDATIONS:		YES YES YES	BY AGE BY AGE	NO

REFERENCES: (OTHER); 1. OSHA Standard 29 CFR 1910.134; 2. ANSI Standard Z88.2-1980, Practices for Respiratory Protection; 3. NIOSH Respirator Decision Logic, U.S. Department of Health and Human Services, DHHS (NIOSH) Pub. No. 87-108; 4. OPNAVINST 5100.23D, Chapter 15; 5. OPNAVINST 5100.19C, Chapter B6; 5. OPNAVINST 6000.1A MANAGEMENT OF PREGNANT SERVICEWOMEN. 7. American Thoracic Society, Respiratory Protection Guidelines, American Journal of Respiratory Critical Care Medicine, Vol 154. pp 1153-1165, 1996. PROGRAM REVISED 6/98.

### PROVIDER COMMENTS:

Spirometry and chest x-rays are not routinely required. They are not recommended solely as data to determine if a respirator should be worn, but may be medically indicated in some cases when additional information is needed to determine fitness. (2) Workers who wear respirators may receive spirometry and chest x-rays as part of surveillance requirements for specific hazards.

### PROGRAM FREQUENCY

Age	Frequency
15 to 34 years	Every five years
35 to 44 years	Every two years
45+ years	Annual

## 717 SUBMARINE DUTY

PROGRAM FREQUENCY: PREPLACEMENT AND ALL SUBSEQUENT COMPLETE EXAMS

FOR OTHER REASONS

### PROGRAM DESCRIPTION:

This program is designated solely to provide guidance on scheduling frequency. The program requires an exam for pre-placement. Thereafter, on all subsequent and periodic physical examinations for any purpose, submarine duty should be included as an additional purpose and a qualification determination made. Tests and forms required are promulgated in Manual of the Medical Department, NAVMED P-117, Chapter 15, Article 15-69, Change 107. For civilian personnel embarked on submarines consult SECNAVINST 6420.1D, 7 April 1986. PROGRAM REVISED 10/97.

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## 702 WASTEWATER/SEWAGE WORKER

PROGRAM FREQUENCY: PENTA-ENNIAL

~ -				
EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
MEDICAL HISTORY: HAVE YOU EVER HAD PERSONAL HISTORY OF:	)?	TITINE	ODIC	EXAM
IS YOUR WORK EXPOSURE HISTORY (	CURRENT (OPNAV 5100/15)	YES	PENTA-E	NO
MAJOR ILLNESS OR INJURY	,	YES	PENTA-E	NO
HOSPITALIZATION OR SURGERY		YES	PENTA-E	NO
CANCER		YES	PENTA-E	NO
BACK INJURY		YES	PENTA-E	NO
DO YOU DRINK 6 OR MORE DRINKS I (BEER, WINE, LIQUOR)	PER WEEK	YES	PENTA-E	NO
HAVE YOU EVER SMOKED		YES	PENTA-E	NO
DO YOU CURRENTLY SMOKE (PACKS/I	DAY)	YES	PENTA-E	NO
HEART DISEASE, HIGH BLOOD PRESS		YES	PENTA-E	NO
CURRENT MEDICATION USE (PRESCR)	IPTION OR OTC)	YES	PENTA-E	NO
MEDICATION ALLERGIES		YES	PENTA-E	NO
ANY REPRODUCTIVE HEALTH CONCERN	IS	YES	PENTA-E	NO
SKIN DISEASE		YES	PENTA-E	NO
COMMENTS ON MEDICAL HISTORY:		YES	PENTA-E	NO
QUALIFICATIONS:				
CURRENT IMMUNIZATIONS		YES	PENTA-E	NO
CERTIFICATIONS PERFORMED IAW:				
NAVMED P-5010		YES	PENTA-E	NO
IS SURVEILLANCE/PPE CONSISTENT WITH		YES	PENTA-E	NO
ARE ANY ABNORMALITIES RELATED TO EX	KPOSURES/OCCUPATIONS	YES	PENTA-E	NO
RECOMMENDATIONS:		YES	PENTA-E	NO

### PROGRAM DESCRIPTION:

The immunization status of wastewater/sewage worker should be reviewed every five years. Tetanus-diphtheria vaccine should be updated according to current recommendations. Polio vaccine is administered to individuals not fully immunized. Specific guidance is contained in these references: (OTHER); 1. NAVMED P-5010, Manual of Naval Preventive Medicine; 2. NAVMEDCOMINST 6230.3, Immunizations and Chemoprophylaxis. PROGRAM REVISED 10/97.

### PROVIDER COMMENTS:

For those applicants without a written record of polio immunization status, attendance at public school in the U.S. is adequate for presumption of prior oral polio vaccine administration.

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# 704 WEIGHT HANDLING EQUIPMENT (MANAGEMENT OF)

OCCUPATIONS IN THIS PROGRAM: CRANE OPERATORS

\*RAILROAD EQUIPMENT OPERATORS

\*CONDUCTORS
\*BRAKEMEN
\*RIGGERS
\*CLIMBERS

PROGRAM FREQUENCY: BI-ENNIAL

EXAM ELEMENT	ELEMENT GIVEN FOR:		PERI ODIC	
MEDICAL HISTORY: HAVE YOU EVER H		TITIVE	ODIC	EXAM
PERSONAL HISTORY OF:				
IS YOUR WORK EXPOSURE HISTORY	CURRENT (OPNAV 5100/15)	YES	BI-ENN	NO
MAJOR ILLNESS OR INJURY	,	YES	BI-ENN	NO
HOSPITALIZATION OR SURGERY		YES	BI-ENN	NO
CANCER		YES	BI-ENN	NO
BACK INJURY		YES	BI-ENN	NO
BACK INJURY DO YOU DRINK 6 OR MORE DRINKS	S PER WEEK	YES	BI-ENN	NO
(BEER, WINE, LIQUOR)				
HAVE YOU EVER SMOKED		YES	BI-ENN	NO
DO YOU CURRENTLY SMOKE (PACKS HEART DISEASE, HIGH BLOOD PRI	S/DAY)	YES	BI-ENN	NO
HEART DISEASE, HIGH BLOOD PRI	ESSURE, OR STROKE	YES	BI-ENN BI-ENN	NO
CURRENT MEDICATION USE (PRESO	CRIPTION OR OTC)	YES	BI-ENN	NO
MEDICATION ALLERGIES		YES	BI-ENN	NO
ANY REPRODUCTIVE HEALTH CONC	ERNS	YES	BI-ENN	NO
LUNG/RESP DISEASE (EX:COPD, E	BRONCHITIS, PNEUMONITIS)	YES	BI-ENN	NO
SYPHILIS OR GONORRHEA		YES	BI-ENN	NO
HEADACHE, DIZZINESS, LIGHT-H	EADEDNESS, WEAKNESS	YES	BI-ENN	NO
NERVOUS STOMACH OR ULCER		YES	BI-ENN	NO
HEAD INJURY		YES	BI-ENN	NO
CHANGE OR LOSS OF VISION		YES	BI-ENN	NO
LOSS OR CHANGE IN HEARING			BI-ENN	NO
CHEST PAIN, ANGINA, HEART AT	FACK, PALPITATIONS	YES	BI-ENN	NO
KIDNEY DISEASE		YES	BI-ENN	NO
EPILEPSY (SEIZURE DISORDER)		YES	BI-ENN	NO
PROBLEMS WITH BALANCE AND COC PROBLEMS WITH NUMBNESS, TING	ORDINATION	YES	BI-ENN	NO
PROBLEMS WITH NUMBNESS, TING	LING, WEAKNESS	YES	BI-ENN	NO
IN HANDS OR FEET				
MIGRAINE HEADACHE DIABETES OR OTHER ENDOCRINE ( MENTAL/EMOTIONAL ILLNESS		YES	BI-ENN	NO
DIABETES OR OTHER ENDOCRINE (	GLAND DISORDER		BI-ENN	NO
			BI-ENN	NO
DEPRESSION, DIFF CONCENTRATION				NO
TREATMENT FOR DRUG OR ALCOHOL	USE		BI-ENN	NO
PERSONALITY CHANGE			BI-ENN	NO
MUSCLE OR JOINT PROBLEMS		YES	BI-ENN	NO
PERMANENT DEFECT FROM ILLNESS FAMILY HISTORY OF:	S, DISEASE OR INJURY	YES	BI-ENN	NO
HEART DISEASE, HIGH BLOOD PRI	ESSURE, OR STROKE	YES	BI-ENN	NO
COMMENTS ON MEDICAL HISTORY:		YES	BI-ENN	NO

EXAM ELEMENT	ELEMENT GIVEN FOR:	BASE LINE		TERM EXAM
LABORATORY:		ПТИБ	ODIC	EXAM
SERUM CHEMISTRY:				
BASELINE LIPID PROFILE	?	YES	NO	NO
URINALYSIS:	-	1110	110	110
ROUTINE:				
URINALYSIS		YES	BI-ENN	NO
ADDITIONAL LAB TESTS:				
BASELINE EKG/LIPID PRO	OFILE ONCE PAST AGE 40?	YES	BI-ENN	NO
CARDIOLOGY:				
BASELINE ELECTROCARDIO	OGRAM	YES	NO	NO
AUDIOLOGY:				
AUDIOGRAM		YES	BI-ENN	NO
OPTOMETRY:				
VISION SCREEN (VISUAL	ACUITY)	YES	BI-ENN	NO
COLOR VISION		YES	BI-ENN	NO
VISUAL FIELDS		YES	BI-ENN	NO
COMMENTS ON LABORATORY RES	SULTS:	YES	BI-ENN	NO
PHYSICAL EXAMINATION:				
VITAL SIGNS		YES	BI-ENN	NO
SPECIAL ATTENTION IN EXA	AMINATION TO:			
CENTRAL NERVOUS SYSTEM	M	YES	BI-ENN	NO
PERIPHERAL NERVOUS SYS	STEM (STRENGTH, SENSATION, DTR)	YES	BI-ENN	NO
BACK & MUSCULOSKELETAI	L SYSTEM	YES	BI-ENN	NO
EXTREMITIES			BI-ENN	NO
CARDIOVASCULAR SYSTEM		YES	BI-ENN	NO
PERIPHERAL VASCULAR SY	YSTEM (RAYNAUD'S)	YES	BI-ENN	NO
EYES			BI-ENN	NO
ABDOMEN			BI-ENN	NO
GENITOURINARY TRACT		YES	BI-ENN	NO
RESPIRATORY SYSTEM		YES	BI-ENN	NO
EARS (TYMPANIC MEMBRAN	/	YES	BI-ENN	NO
OVERALL PHYSICAL FITNE		YES	BI-ENN	NO
OTHER APPROPRIATE EXAMIN		YES	BI-ENN	NO
COMMENTS ON PHYSICAL EXAM		YES	BI-ENN	NO
•	STENT WITH EXPOSURES LISTED BELOW	YES	BI-ENN	NO
	ATED TO EXPOSURES/OCCUPATIONS	YES	BI-ENN	NO
LISTED BELOW		VEC	דיווים די	NTO
RECOMMENDATIONS:		YES	BI-ENN	NO

### PROGRAM DESCRIPTION:

REFERENCES: 1. NAVFAC P-307, 2. 49 CFR 391.41-49.

Military personnel are exempt from the requirements of the Commercial Motor Vehicle Safety Act of 1986, and, in particular, from the requirements of 49 CFR Part 383 regarding physical examination requirements in order to obtain a commercial drivers license. The scope of the periodic examination is considered sufficient to meet the requirements. Waivers for previously qualified operators are authorized by activity Commanding Officers after appropriate medical and management review - see reference 1.

### PROVIDER COMMENTS:

\*Waivers pertain only to crane operators.

### APPENDIX A Listing of Tests

	Listing of lests
Test	Test Name
1000	
1000	MEDICAL HISTORY: HAVE YOU EVER HAD?
1100	Personal History of:
1105	Is Your Work Exposure History Current (OPNAV 5100/15)
1107	Since last SF 88/93 physical have you had?
1110	Major Illness or Injury
1120	Hospitalization or Surgery
1130	Cancer
1140	Back Injury
1150	Do You Drink 6 or More Drinks per week?
	(beer, wine, liquor)
1155	Have You Ever Smoked?
1160	Do You Currently Smoke? (packs/day)
1161	How Many Years Have or Did You Smoke?
1162	None Number Years
1163	Greatest Number of Packs Per Day Smoked
1164	Former Smokers - Time Since Quitting: Years
1165	Do You Use Smokeless Tobacco?
1169	Average Packs Per Day Smoked
1170	Heart Disease, High Blood Pressure or Stroke
1180	Current Medication Use (Prescription or OTC)
1182	Medication Allergies
1190	Use of Seat Belts (Always, Mostly, Some, None)
1192	Any Reproductive Health Concern
1200	Blood Diseases (Anemia)
1210	Blood Transfusions
1220	Allergies (Asthma, Hay Fever, Eczema)
1230	Skin Disease
1231	Recurrent Skin Rash
1235	Precancerous Lesions
1240	Heat Injury (Cramps, Exhaustion, Stroke)
1250	Peripheral Vascular Disease
1260	Hepatitis or Jaundice
1270	Radiation Therapy or Radiopharmaceutical Treatment
1280	Lung/Resp Disease (Ex:COPD, Bronchitis, Pneumonitis)
1285	Wheezing
1290	Tuberculosis
1300	Infectious Disease
1302	History of Chicken Pox
1304	Communicable Disease
1305	Syphilis or gonorrhea
1310	Treatment with Steroids or Cancer (Cytotoxic) Drugs
1315	Decreased Immunity
	-
1320	Use of Nitrate Medication (Nitroglycerine)
1330	Use of Anticholinergic Drugs (Donnatal)
1340	Use of Barbiturates

Test	Test Name
1400	Headache, Dizziness, Light-headedness, Weakness
1410	Nausea or Vomiting
1415	Nervous Stomach or Ulcer
1420	Exposure (Acclimatization) to Heat
1421	Cold Injury (Frostbite, Chill, Trench Foot, Hypothermia)
1430	Weight Loss
1440	Head Injury
1450	Tremors
1455	Use of Eye Glasses
1460	Change or Loss of Vision
1461	Contact Lens Use
1462	Lens Surgery
1463	Photosensitizing Medications
1464	Unusual Sensitivity to Sunlight
1465	Loss of Vision in Either Eye
1466	Color Blindness
1470	Cataracts
1480	Eye Irritation
1490	Eye Injury
1500	Glaucoma
1505	Any Other Eye or Vision Problem
1510	Perforation of Nasal Septum
1512	Sinus/Nasal Symptoms
1513	Rhinitis
1514	Nose Bleeds
1515	Inability to Smell
1520	Tooth or Gum Disease
1530	Ringing in the Ear (Tinnitus)
1534	Any Injury to Your Ears
1535	Ruptured Ear Drum
1540	Loss or Change in Hearing
1541	A Need to wear a Hearing Aid
1542	Any Other Hearing or Ear Problem
1550	Chest Pain, Angina, Heart Attack, Palpitations
1555	Frequent Pain or Tightness in Chest
1557	Swelling in Legs or Feet (Not Caused By Walking)
1559	Any Other Heart Problems You've Been Told About
1560	Coughing Up Blood (Hemoptysis)
1570	Shortness of Breath
1580	Cough (Dry or Productive)
1585 1590	Any Finding Related to Asbestos Exposure Pneumonia
1600	Chronic Abdominal Pain, Vomiting, Other GI Symptoms
1605	Change in Frequency or Appearance of Bowel Movements
1610	Liver Disease
1620	Kidney Disease
1625	Kidney Stones
1630	Problems with Urination/Blood in Urine
1635	Protein in Urine
1640	Current Pregnancy (Self or Spouse)
1645	Current Pregnancy (Females Only)
1646	Infertility or miscarriage (Self or Spouse)
1650	Impotence or Sexual Dysfunction
1660	Infertility or Miscarriage (Self or Spouse)
1670	Epilepsy (Seizure Disorder)
1680	Problems with Balance & Coordination
1682	Problems with Numbness, Tingling, Weakness in Hands or Feet
1690	Migraine Headache

Thyroid Disease (Heat or Cold Intolerance) Diabetes or Other Endocrine Gland Disorder Mental FMentional Illness Depression, Difficulty Concentrating, Excessive Anxiety Treatment for Drug or Alcohol Use 1740 Personality Change 1745 Claustrophobia 1750 Vibration White Finger Disease 1760 Muscle or Joint Problems 1761 Any Other Muscle or Skeletal Problem That May Interfere 1764 With Using a Respirator Permanent Defect from Illness, Disease or Injury 1770 Adverse Reaction to Eating Any Vegetable or Fruit 1775 1770 Adverse Reaction to Eating Any Vegetable or Fruit 1775 1770 Adverse Reaction to Cany Rubber/Latex Containing Product 1780 Multiple Operations or Chronic Medical Instrumentation 1785 Unexplained Hives or Symptoms of Shock 1791 Work History Of: 1792 1793 Work History Of: 1794 Prior Respirator Use 1794 1795 Prior Respirator Use 1796 1797 1798 1798 1799 1799 1790 1790 1790 1790 1790 1790	Test	Test Name
Diabetes or Other Endocrine Gland Disorder Mental/Emotional Illness 1730 Depression, Difficulty Concentrating, Excessive Anxiety 1732 Treatment for Drug or Alcohol Use 1740 Personality Change 1745 Claustrophobia 1755 Vibration White Finger Disease 1755 Bone Problems (Broken Bones) 1760 Muscle or Joint Problems 1761 Any Other Muscle or Skeletal Problem That May Interfere 1764 With Using a Respirator 1765 Permanent Defect from Illness, Disease or Injury 1770 Adverse Reaction to Eating Any Vegetable or Fruit 1775 Adverse Reaction to Any Rubber/Latex Containing Product 1780 Multiple Operations or Chronic Medical Instrumentation 1781 Unexplained Hives or Symptoms of Shock 1790 Itchy Eyes, Runny Nose, Respiratory Symptoms 1791 When Using Latex Gloves 1791 When Using Latex Gloves 1791 When Using Latex Gloves 1792 If Yes, Any Problems That Interfered With Use 1793 Exposure to Dusts (Coal, Blast. Grit, Sand, Nuisance) 1794 Exposure to Asbestos 1796 Exposure to Asbestos 1796 In More Years Since First Exposure to Asbestos 1797 Exposure to Benzene 1798 Exposure to Chemotherapeutic/Antineoplastic Agents 1799 Exposure to Aerosolized Antibiotics/Antivirals 1790 Exposure to Ethylene Oxide 1790 Exposure to Silica or Sand 1790 Exposure to Silica or Sand 1791 Exposure to Individe Texposure to Arsenic 1790 Exposure to Individe Texposure to Arsenic 1790 Exposure to Individe Texposure to Vinyl Chloride 1790 Exposure to Individe Texposure to Vinyl Chloride 1790 Exposure to Individe Texposure to Vinyl Chloride 1790 Exposure to Vibration (Segmental or Whole Body) 1791 Exposure to Excessive Noise 1792 Exposure to Carcinogens 1793 Exposure to Potentially Infectious Body Fluids 1790 Exposure to Potentially Infectious Body Fluids 1790 Exposure to Potentially Infectious Body Fluids 1790 Province Respiratory Irritants 1790 Exposure to Potentially Infectious Body Fluids 1790 Province Respiratory Irritants 1790 Province Respiratory Irritants 1790 Province Reactive Potentially Infectious Body Fluids 1790 Province Reactive Potentially Infectious	1700	Thyroid Disease (Heat or Cold Intolerance)
Mental/Emotional Illness Depression, Difficulty Concentrating, Excessive Anxiety Treatment for Drug or Alcohol Use Personality Change Claustrophobia T755 Vibration White Finger Disease T755 Bone Problems (Broken Bones) T760 Muscle or Joint Problems T761 Muscle or Joint Problems T762 Muscle or Joint Problems T763 Any Other Muscle or Skeletal Problem That May Interfere T764 With Using a Respirator Permanent Defect from Illness, Disease or Injury T770 Adverse Reaction to Eating Any Vegetable or Fruit T775 Adverse Reaction to Eating Any Vegetable or Fruit T776 Adverse Reaction to Any Rubber/Latex Containing Product T777 Muscle With Using Latex Gloves Multiple Operations or Chronic Medical Instrumentation T778 Unexplained Hives or Symptoms of Shock T1790 T1791 When Using Latex Gloves Work History Of: T791 Work History Of: T792 T793 Work History Of: T794 T794 T795 T796 T797 T797 T797 T798 T797 T798 T797 T798 T798		
Depression, Difficulty Concentrating, Excessive Anxiety Treatment for Drug or Alcohol Use Personality Change Claustrophobia The		
Treatment for Drug or Alcohol Use Personality Change 1745 Claustrophobia 1750 Vibration White Finger Disease 1760 Muscle or Joint Problems 1761 Muscle or Joint Problems 1762 Any Other Muscle or Skeletal Problem That May Interfere 1764 With Using a Respirator 1765 Permanent Defect from Illness, Disease or Injury 1770 Adverse Reaction to Eating Any Vegetable or Fruit 1775 Adverse Reaction to Any Rubber/Latex Containing Product 1780 Multiple Operations or Chronic Medical Instrumentation 1785 Unexplained Hives or Symptoms of Shock 1790 Itchy Eyes, Runny Nose, Respiratory Symptoms 1791 When Using Latex Gloves Work History Of: 1780 Work History Of: 1780 Work History Of: 1780 Prior Respirator Use 1780 If Yes, Any Problems That Interfered With Use 1780 1780 Exposure to Dusts (Coal, Blast. Grit, Sand, Nuisance) 1781 Exposure to Lead 1782 1783 1784 1884 1885 1886 1886 1887 1888 1888 1888 1888 1888		
1740   Personality Change   Claustrophobia   1755   Vibration White Finger Disease   1755   Bone Problems (Broken Bones)   1760   Muscle or Joint Problems   1763   Any Other Muscle or Skeletal Problem That May Interfere   With Using a Respirator   1765   Permanent Defect from Illness, Disease or Injury   1770   Adverse Reaction to Eating Any Vegetable or Fruit   1775   Adverse Reaction to Any Rubber/Latex Containing Product   1780   Multiple Operations or Chronic Medical Instrumentation   1785   Unexplained Hives or Symptoms of Shock   1790   Itchy Eyes, Runny Nose, Respiratory Symptoms   1791   When Using Latex Gloves   1791   When Using Latex Gloves   1792   When Using Latex Gloves   1793   When Using Latex Gloves   1794   When Using Latex Gloves   1795   Prior Respirator Use   1796   Exposure to Dusts (Coal, Blast. Grit, Sand, Nuisance)   Exposure to Dusts (Coal, Blast. Grit, Sand, Nuisance)   Exposure to Dusts (Coal, Blast. Grit, Sand, Nuisance)   Exposure to Benzene   Exposure to Asbestos   1796   Exposure to Benzene   1797   Exposure to Aerosolized Antibiotics/Antivirals   1797   179		
Uibration White Finger Disease 1755 Bone Problems (Broken Bones) 1760 Muscle or Joint Problems 1761 Any Other Muscle or Skeletal Problem That May Interfere 1764 With Using a Respirator 1765 Permanent Defect from Illness, Disease or Injury 1770 Adverse Reaction to Eating Any Vegetable or Fruit 1775 Adverse Reaction to Any Rubber/Latex Containing Product 1780 Multiple Operations or Chronic Medical Instrumentation 1785 Unexplained Hives or Symptoms of Shock 1790 Itchy Eyes, Runny Nose, Respiratory Symptoms 1791 When Using Latex Gloves 1790 Work History Of: 1790 Prior Respirator Use 1790 If Yes, Any Problems That Interfered With Use 1790 Exposure to Dusts (Coal, Blast. Grit, Sand, Nuisance) 1790 Exposure to Asbestos 1791 Low More Asbestos 1791 Or More Years Since First Exposure to Asbestos 1792 Exposure to Chemotherapeutic/Antineoplastic Agents 1793 Exposure to Chemotherapeutic/Antineoplastic Agents 1794 Exposure to Aerosolized Antibiotics/Antivirals 1795 Exposure to Ethylene Oxide 1796 Exposure to Chromium or Chromic Acid 1797 Exposure to Hydrogen Fluoride or Inorganic Fluorides 1798 Exposure to Hydrogen Fluoride or Inorganic Fluorides 1799 Exposure to Ionizing Radiation 1790 Exposure to Vibration (Segmental or Whole Body) 1791 Exposure to Excessive Noise 1792 Exposure to Respiratory Irritants 1795 Exposure to Excessive Noise 1796 Exposure to Skin Irritants 1797 Exposure to Excessive Noise 1798 Exposure to Isocyanate Foam or Paint 1799 Exposure to Potentially Infectious Body Fluids 1790 Exposure to Cadmium 1790 Dryou Handle Organophosphate or Carbamate Pesticides 1790 Reserved 1790 Reserved 1790 Reserved 1790 Reserved 1791 Reserved 1792 Reserved 1792 Reserved 1792 Reserved 1792 Reserved 1792 Reserved		
Vibration White Finger Disease 1755 Bone Problems (Broken Bones) 1760 Muscle or Joint Problems 1763 Any Other Muscle or Skeletal Problem That May Interfere 1764 With Using a Respirator 1765 Permanent Defect from Illness, Disease or Injury 1770 Adverse Reaction to Eating Any Vegetable or Fruit 1775 Adverse Reaction to Any Rubber/Latex Containing Product 1780 Multiple Operations or Chronic Medical Instrumentation 1785 Unexplained Hives or Symptoms of Shock 1790 Itchy Eyes, Runny Nose, Respiratory Symptoms 1791 When Using Latex Gloves 1791 When Using Latex Gloves 1792 1793 Work History Of: 1794 1795 1795 1796 1797 1797 1798 1799 1799 1799 1799 1799		
1755   Bone Problems (Broken Bones)		
Any Other Muscle or skeletal Problem That May Interfere With Using a Respirator Network Warden With Using a Respirator Permanent Defect from Illness, Disease or Injury Adverse Reaction to Eating Any Vegetable or Fruit Respirator Use Multiple Operations or Chronic Medical Instrumentation Unexplained Hives or Symptoms of Shock Unexplained Hives or Symptoms of Shock The Yes, Runny Nose, Respiratory Symptoms When Using Latex Gloves Work History Of: Prior Respirator Use Work History Of: Prior Respirator Use The Yes, Any Problems That Interfered With Use Exposure to Dusts (Coal, Blast, Grit, Sand, Nuisance) Exposure to Dusts (Coal, Blast, Grit, Sand, Nuisance) Exposure to Lead Exposure to Lead Exposure to Exposure to Exposure to Asbestos Exposure to Lead Exposure to Enzene Exposure to Chemotherapeutic/Antineoplastic Agents Exposure to Exposure to Antibiotics/Antivirals Exposure to Exposure to Stilica Or Sand Exposure to Ethylene Oxide Exposure to Exposure to Chromium or Chromic Acid Exposure to Silica or Sand Exposure to Hydrogen Fluoride or Inorganic Fluorides 10 or More Years Since First Exposure to Arsenic 10 or More Years Since First Exposure to Vinyl Chloride Exposure to Ionizing Radiation Exposure to Vibration (Segmental or Whole Body) Exposure to Excessive Noise Exposure to Excessive Noise Exposure to Skin Irritants Exposure to Exposure to Respiratory Irritants Exposure to Exposure to Respiratory Irritants Exposure to Sensitization to Isocyanate Foam or Paint Exposure to Formaldehyde Exposure to Formaldehyde Exposure to Cadmium Do You Handle Organophosphate or Carbamate Pesticides Reserved Reserved	1755	
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Exposure to Skin Irritants  2160 Exposure to Respiratory Irritants  2170 Exposure to Carcinogens  2180 Exposure to Isocyanate Foam or Paint  2190 Sensitization to Isocyanates (TDI, MDI)  2200 Exposure to Solvents (MEK, PERC, TCE, Toluene)  2205 Exposure to Potentially Infectious Body Fluids  2210 Exposure to Formaldehyde  2215 Exposure to Cadmium  2220 Do You Handle Organophosphate or Carbamate Pesticides  2221 Reserved  2222 Reserved  2223 Reserved	2135	Exposure to Excessive Noise
Exposure to Respiratory Irritants Exposure to Carcinogens Exposure to Isocyanate Foam or Paint Exposure to Isocyanates (TDI, MDI) Exposure to Solvents (MEK, PERC, TCE, Toluene) Exposure to Potentially Infectious Body Fluids Exposure to Formaldehyde Exposure to Cadmium Do You Handle Organophosphate or Carbamate Pesticides Reserved Reserved Reserved Reserved	2140	Eye Injury
Exposure to Carcinogens  Exposure to Isocyanate Foam or Paint  Sensitization to Isocyanates (TDI, MDI)  Exposure to Solvents (MEK, PERC, TCE, Toluene)  Exposure to Potentially Infectious Body Fluids  Exposure to Formaldehyde  Exposure to Cadmium  Do You Handle Organophosphate or Carbamate Pesticides  Reserved  Reserved  Reserved  Reserved		
2180 Exposure to Isocyanate Foam or Paint 2190 Sensitization to Isocyanates (TDI, MDI) 2200 Exposure to Solvents (MEK, PERC, TCE, Toluene) 2205 Exposure to Potentially Infectious Body Fluids 2210 Exposure to Formaldehyde 2215 Exposure to Cadmium 2220 Do You Handle Organophosphate or Carbamate Pesticides 2221 Reserved 2222 Reserved 2223 Reserved		
2190 Sensitization to Isocyanates (TDI, MDI) 2200 Exposure to Solvents (MEK, PERC, TCE, Toluene) 2205 Exposure to Potentially Infectious Body Fluids 2210 Exposure to Formaldehyde 2215 Exposure to Cadmium 2220 Do You Handle Organophosphate or Carbamate Pesticides 2221 Reserved 2222 Reserved 2223 Reserved		
2200 Exposure to Solvents (MEK, PERC, TCE, Toluene) 2205 Exposure to Potentially Infectious Body Fluids 2210 Exposure to Formaldehyde 2215 Exposure to Cadmium 2220 Do You Handle Organophosphate or Carbamate Pesticides 2221 Reserved 2222 Reserved 2223 Reserved		
2205 Exposure to Potentially Infectious Body Fluids 2210 Exposure to Formaldehyde 2215 Exposure to Cadmium 2220 Do You Handle Organophosphate or Carbamate Pesticides 2221 Reserved 2222 Reserved 2223 Reserved		
2210 Exposure to Formaldehyde 2215 Exposure to Cadmium 2220 Do You Handle Organophosphate or Carbamate Pesticides 2221 Reserved 2222 Reserved 2223 Reserved		
2215 Exposure to Cadmium 2220 Do You Handle Organophosphate or Carbamate Pesticides 2221 Reserved 2222 Reserved 2223 Reserved		
Do You Handle Organophosphate or Carbamate Pesticides Reserved Reserved Reserved Reserved		
2221 Reserved 2222 Reserved 2223 Reserved		
2222 Reserved 2223 Reserved		
2223 Reserved		
7.7.00 P.XUUSUTE TO METUVIEUE TUUNTUUE	2226	Exposure to Methylene Chloride,
2227 Dichloromethane, Methylene Dichloride		
2230 Regular Contact With Latex Gloves or Other		
2231 Rubber Products		9

```
Test
            Test Name
2500
            Family History Of:
2510
              Blood Diseases (Anemia)
2520
              Genetic Disease (Include Children)
2530
              Cancers (Leukemia, Tumors)
2540
              Heart Disease, High Blood Pressure or Stroke
2545
              Cataracts
2550
              Decreased Immunity
2990
            COMMENTS ON MEDICAL HISTORY
3000
            LABORATORY
3100
              Hematology:
                Complete Blood Count (HGB, HCT, WBC, MCV, MCH, MCHC)
3110
3111
                Hemoglobin (HBG)
3112
                Mean Corpuscular Volume (MCV)
3113
                White Blood Count (WBC)
3114
                Hematocrit
3120
                Differential White Blood Cell Count
3125
                RBC Morphology
3130
                Reticulocyte count
3140
                Platelet Estimate
3141
                Platelet Count
3500
              Serum Chemistry:
3510
                Random Serum/Plasma Glucose
3511
                Fasting Blood Glucose
3520
                Basic Profile to Include:
3521
                  BUN, Creatinine, Uric Acid, Calcium,
                  Total Bilirubin, Alk. Phos., SGOT (AST)
3522
3530
                Liver Profile to Include:
                  SGOT (AST), Total Bilirubin, Alk. Phos.
3531
3532
                Albumin, Alkaline Phosphatase, LDH
3541
                BUN, Creatinine, Serum Electrolytes (Na, K)
3545
                BUN and Creatinine
3546
                Creatinine
3547
                Cholesterol
3548
                Cholesterol Every 5 Years
3550
                SGOT (AST)
                SGOT (AST) Every 5 Years
3551
3560
                Phosphate
3570
                Globulin
3580
                Acid Phosphatase
3590
                CPK
3600
                Bilirubin (Direct)
3608
                Baseline Lipid Profile
3609
                Lipid Profile (if clinically indicated)
3610
                Triglycerides
3611
                Triglycerides (if clinically indicated)
3620
                GGT
3630
                Blood Lead and Zinc Protoporphyrin (ZPP)
3631
                Blood Lead
3640
                RBC Cholinesterase
3641
                Plasma (or Serum) Cholinesterase
```

Test	Test Name
3650	Serum FSH, LH and Estrogen
3660	Blood Methemoglobin (If cyanotic)
3670	Blood Acetone
3675	Serum Total Estrogen (female)
3680	Serum Follicle Stimulating Hormone (FSH)
3685	Serum Luteinizing Hormone (LH)
3690	Cadmium in Blood
4000	Urinalysis:
4100	Routine:
4110	Urinalysis with Microscopic
4120	Urinalysis without Microscopic
4200	Urine Chemistry:
4210	Urine Total Phenol
4220	Urine Hydroquinone (If Urine is Dark Brown)
4230	Urine Mercury
4250	Urine Fluoride - Post Shift
4260	Urine 24 - Hour Protein (Quantitative)
4270	Urine P-Nitrophenol (If Darkening Observed)
4280	Blank
4285	Cadmium in Urine (CdU)
4290	Beta-2-Microglobulin ( $\beta_2$ -M) in Urine
4295	Urine total Arsenic
4500	Cytology:
4510	Sputum Cytology
4520	Urine Cytology
4800	Additional Lab Tests:
4810	Stool Hemoccult (Over age 40)
4811	Stool Hemoccult (Required for Males)
4820	Sperm Count (Male)
4830	RPR
4840	Tuberculosis Screen
4850	Pregnancy Testing or Laboratory Testing of
4851	Fertility if Requested by Employee and Deemed
4852	Appropriate by the Physician
4855	Serum to be frozen
4860	Pressure and Oxygen Tolerance Test
4870	Whole Body Count
4872	Baseline EKG/Lipid Profile Once Past Age 40?
5000	Cardiology:
5010	Electrocardiogram
5015	Electrocardiogram Every 5 Years
5020	Exercise Cardiac Stress Test
5025	Electrocardiogram (if Clinically Indicated)
5030	Baseline Electrocardiogram
5200	Audiology:
5210	Audiogram
5220	Audiogram - 15 hr/40 hr Noise Free
5225	Follow-up Audiogram
5230	Tympanogram Status
5400	Radiology:

```
Test
            Test Name
5410
                Chest X-ray (PA)
5411
                Chest X-ray (PA) Every 5 Years
5420
                Chest X-ray (Asbestos)
5421
                Chest X-ray (Asbestos) Every 5 Years
5422
                Chest X-ray (Asbestos) Every 2 Years
5423
                Chest X-ray (Asbestos) Age Dependent
5424
                Chest X-ray (PA) (frequency determined by examining physician)
5425
                Using Form - NAVMED 6260/7
5426
                Reserved
5428
                Reserved
5430
                Reserved
5431
                Reserved
5600
              Spirometry:
5605
                Ethnic Background
5610
                Spirometry (FVC, FEV1, FEV1/FVC)
                Forced Vital Capacity (FVC)
5611
5612
                Forced Expiratory Volume in One Second (FEV_1)
5800
              Optometry:
5805
                Date of Most Recent Refraction - When Applicable
5807
                Current Refraction Prescription - When Applicable
5810
                Vision Screen (Visual Acuity)
5811
                Reserved
5812
                Reserved
5813
                Reserved
5814
                Reserved
5815
                Reserved
5816
                Reserved
5817
                Reserved
5818
                Reserved
5819
                Color Vision
5820
                Depth Perception
5830
                Visual Fields
5835
                Contrast Sensitivity
5836
                External Ocular and Fundus Examination
5840
                Ophthalmologic Exam
5850
                Slit Lamp Exam
5860
                Tonometry
                Tonometry Over Age 40 (if clinically indicated)
5861
5865
                Near Vision (Welders Only)
5870
                Peripheral Vision
5900
              Dental:
5910
                Dental Exam
5920
            Other Tests Deemed Appropriate by the Physician
5990
            COMMENTS ON LABORATORY RESULTS:
6000
            Physical Examination:
6005
            Required When Positive History Questions are Obtained:
6010
              Vital Signs
6011
              Height
6012
              Weight
6013
              Diastolic Blood Pressure
6100
              Special Attention in Examination to:
6110
                Central Nervous System
```

Test	Test Name
6120	Peripheral Nervous System (Strength, Sensation, DTR)
6130	Back and Musculoskeletal System
6135	Extremities
6140	Cardiovascular System
6150	Peripheral Vascular System (Raynaud's)
6155	Varicose Veins of Lower Extremities
6160	Cyanosis
6165	Clubbing
6170	Eyes
6175	Eyes
6180	Gums (e.g., Lead Lines?)
6190	Teeth (Acid Erosion)
6200	Abdomen
6205	Breast Examination (Female)
6210	Genitourinary Tract
6215	GU (including Testicle Size)
6220	Testes (Male)
6230	Kidney
6240	Liver
6245	Spleen
6250 6260	Mucous Membranes
6262	Nasal Mucosa (Septal Perforation) Sinuses
6265	Nasal Mucosa
6270	Respiratory System
6280	Ears (Tympanic Membranes)
6290	Skin (Rash, Erosion, Ulcer, Pigment, Eczema, Etc.)
6300	Skin, With Regard to Malignant and Pre-malignant Conditions
6310	Thyroid
6320	Metabolic Disturbance (Fever, Tachycardia)
6340	Immunocompetence (Lymphatic System)
6350	Obesity
6360	Overall Physical Fitness
6365	Rectal Examination
6366	Hemorrhoids
6367	Prostate Palpation or Other At-Least-As-Effective
6368	Diagnostic Test(s) for Males Over 40 Years Old
6370	Body Habitus
6900	Other Appropriate Examination (Specify):
6990	COMMENTS ON PHYSICAL EXAMINATION:
7100	Qualifications:
7110	Respiratory Protection - Ensure Worker is Enrolled in RPP
7120	Sight Conservation
7130	Current Immunizations
7140	Measles/Mumps/Rubella Immune Status
7145	Measles Immune Status
7147	Varicella Immune Status
7150	Is Hepatitis B Vaccine Series Complete or

Test	Test Name
7151	Prior Infection Documented?
7500	Certifications Performed IAW:
7510	NAVMED P117, Chapter 15
7520	NAVMED P-5010
7530	NAVSEA OP-2239
7540	FPM TS 146
7560	NAVMED P-5055
7570	NAVFAC P-306
7575	FPM 930
7576	ANSI A136.1 OF 1986
7577	OPNAVINST 5100.23B CHAPTER 22
7580	NCIS Manual for Administration
7596	Asbestos History Form 2493-1 Completed
7597	Asbestos History Form 2493-2 Completed
7700	Update SF 93 as Applicable
7710	Review Functional/Environmental Requirements of SF 78
7720	Complete NAVMED 6260/5, Rev (5/90), Periodic Health Evaluation
7730	Review DD 2493-1, Initial Exam or DD 2493-2, Periodic Exam
8000	Hearing Conservation:
8100	Has Baseline Been Reestablished Due to PTS?
8110	High Frequency Average Exceeds 45 dB Bilaterally?
8120	Ear Plugs Fitted and Issued
8130	Refer to Audiologist or Physician
9000	Special Notations:
9010	Substance(s) Known Human Carcinogen
9020	Substance(s) Suspected Human Carcinogen
9030	Substance(s) Known Mutagenic or Fetotoxic Effects
9040	Substance(s) Suspected Human Mutagenic/Fetotoxic Effects
9050	Counseling Regarding Combined Effects of Smoking
9051	and Asbestos Exposure
9060	Assess Knowledge of Universal Blood/Body Fluid Precautions
9065	Physician's Written Opinion Required
9067 9070	Written Notification of Permanent Threshold Shift Required
9070	Physician's Written Opinion not Required
9075	DD 2493-1 Initial Exam or DD 2493-2 Periodic Exam not Required Is surveillance/PPE Consistent With Exposures Listed Below
9970	ASSESSMENT:
9980	Are Any Abnormalities Related To Exposures/Occupations Listed Below
9985	SF 88/93 Reviewed and Found Complete
9990	RECOMMENDATIONS:
J J J U	RECOMMENDATIONS.

#### APPENDIX B

### Reviews and Revisions

The following list of stressors was reviewed and not included in the Medical Matrix. Any questions or concerns should be addressed to Committee members or Occupational Medicine staff at NAVENVIRHLTHCEN. The list will be reviewed periodically and updated.

Stressor	Date reviewed
Acetone	Dec 1989
Asphalt Fumes	Dec 1989
Benzo(a) pyrine	Dec 1989
Crysene	Dec 1989
Fungicides	Nov 1990
N-heptane	Dec 1989
N-Hexame	Dec 1989
Petroleum distillates (kerosene, Stoddard Solvent, Naphtha, Mineral Spirits	Dec 1989
Silver	Dec 1989

On further review for chronic effects and evaluation of usage, these programs were removed from the Medical Matrix. Solvents were included in Program #603, Mixed Solvents, and program #157 was combined with an existing program. The program numbers will be retained for historical purposes.

Program Numl	ber Stressor	Date Reviewed
107	Ammonia	Aug 1990
119	Benzoyl Peroxide	Aug 1990
120	Benzyl Chloride	Aug 1990
123	2-Butanone (Methyl Ethyl Ketone	Aug 1990
129	Chlorine	Aug 1990
136	Cyclohexanone	Aug 1990
144	Ethyl Butyl Ketone	Aug 1990
147	Ethylene Glycol	Aug 1990
153	Glycol Ethers (other than ethoxy and	Aug 1990
	methoxy ethanol	
212	N-Heptane	Aug 1990
154	Hexone	Aug 1990
157	Hydrogen Fluoride (Combined with #150)	Aug 1990
160	Isopropyl Alcohol	Aug 1990
164	Methyl (N-Amyl) Ketone	Aug 1990
165	Methyl Alcohol	Aug 1990
169	Morpholine	Aug 1990
101	Nuisance Dusts	Aug 1990
181	2-Pentanone (Methyl Propyl Ketone)	Aug 1990

### APPENDIX B (con't)

Program Numl	ber Stressor		Da	ate	
Reviewed					
182	Phenol	Aug	1990		
183	Phosgene	Aug	1990		
504	Radiation- Infared, UV and visible	Apr	1995		
507	Radiation-Radiofrequency & Microwave	Apr	1995		
188	Sodium Hydroxide	Aug	1990		
193	TMPP (Trimethylolpropane Phosphate	Aug	1990		
199	Triorthocresylphosphate (TOCP)	Aug	1990		
200	Tungsten (merged with #208)	Feb	1994		
201	Vanadium	Feb	1994		
202	Vinyl Acetate	Aug	1990		
206	Zinc Oxide	Aug	1990		
The fo	ollowing programs were moved from the chem.	ical	stressors	section	to
the mixed ex	xposures section.				
108	Anesthetic Gases	Apr	1995		
207	Animal Associated Disease	Apr	1995		
110	Antineoplastic Drugs	Apr	1995		
216	Herbicides	Apr	1995		
162	Machine Oil Mists	Apr	1995		
212	Manmade Mineral Fibers	Apr	1995		
179	Organophosphate/Carbamate Compounds	Apr	1995		

Asbestos Current Worker - 10+ years since first exposure ( $\sharp 113$ ) and Asbestos Current Worker - 0 to 10 years since first exposure ( $\sharp 114$ ) were combined into one program, Asbestos Current Worker ( $\sharp 113$ ).

#### APPENDIX C

### General References

- (1) Zenz, Carl, editor. Occupational medicine: principles and practical applications. 3rd ed. St. Louis: Mosby Year Book, Inc. 1994.
- (2) Rom, William N., editor. Renzetti, Attilio D., Jr.; Lee, Jeffrey S.; Archer, Victor E., assistant editors. Environmental and occupational medicine. 2nd ed. Boston: Little, Brown; 1992.
- (3) Hathaway, Gloria J; Proctor, Nick H; Hughes, James P; editors. Chemical hazards of the workplace. 4th ed. New York: Van Nostrand Reinitula; 1996.
- (4) Hamilton, Alice. Hamilton and Hardy's Industrial hygiene. 4th ed. Boston: Wright-PSG; 1983.
- (5) Sullivan, John B., Jr.; Krieger, Gary R., editors. Hazardous materials toxicology: clinical principles of environmental health. Baltimore: Williams & Wilkins; 1992.

# APPENDIX D

### IMPROVEMENT REQUEST MEDICAL MATRIX

DATE
Originator:
Address:
Telephone: (COM) (DSN)
This is a request for a CHANGE in a current program.
Name and number of program:
Recommendation:
This is a request for ADDITION of a new program.
Recommendation: Include references and description of program currently in use.
Additional comments:
Mail to: Commanding Officer

ATTN: Medical Matrix Committee Navy Environmental Health Center 2510 Walmer Avenue

Norfolk, VA 23513-2617

#### APPENDIX E

### PHYSICIAN'S WRITTEN OPINION

On the following pages are samples of physician's written opinions required by OSHA for certain programs. The physician's written opinion contains the results of the medical examination and the following:

- The physician's opinion as to whether the employee has any detected medical conditions that would place the employee at an increased risk of health impairment from continued exposure to the particular hazard.
- 2. Any recommendations for limitations on the employee or for use of personal protective equipment.
- 3. A statement that the employee has been informed of the results of the medical evaluation and about any medical conditions resulting from exposure to the particular hazard.

The physician's written opinion is given to the employee's command and therefore must not reveal specific findings or diagnoses unrelated to occupational exposure to the hazards.

Sample Physician's Written Opinion for:

Asbestos Medical Surveillance Program Hazardous Waste Workers and Emergency Responders Notification of Permanent Threshold Shift Occupational Exposure to Blood and/or Body Fluids Occupational Exposure to Butadiene Occupational Exposure to Cadmium Occupational Exposure to Ethylene Oxide Occupational Exposure to Formaldehyde Occupational Exposure to Lead

Occupational Exposure to Methylene Chloride

		DAT	ΓE
ASBESTOS MEDICAL SURVEII	LANCE PROGRAM		
PHYSICIAN'S WRITTEN OPIN	NION in the case of:		
Name:	SSN:	Dept/Code:	_
1. The above noted indi regarding exposure to as following comments are s	bestos. On the basis	cording to current guidelines of this examination the	
	erial health impairmen	hat would place the employee at t from exposure to asbestos, ents (if applicable):	Ī.
		s individual's exposure or use spirators. Comments (if	
attributable to the comb 5. The employee has bee evaluation and of any me	eined effect of smoking en counseled regarding edical conditions resul ite exposure that requ	the results of this medical ting from asbestos, tremolite, ire further explanation or	
(employee's signatur			
	(examiner's signature	and stamp) (date	∋)

Original: employer Copies: employee

medical record

				DATE
HAZARDOUS V	WASTE WORKERS	AND EMERGENCY RESPO	NDERS	
PHYSICIAN'S	S WRITTEN OPI	NION in the case of:		
Name:		SSN:	Dep	t/Code:
regarding he this examinate.  2. A media	nazardous was nation the fo	ividual was examined te operations or eme llowing comments are WAS/WAS NOT detecte terial impairment of	rgency response. submitted.  d that would place	On the basis of ce the employee at
		response. Comments		
	l protective (	NOT recommended on equipment, including		
		en counseled regardi edical conditions th		
		(examiner's signatu	re and stamp)	(date)
Original: Copies:	employer employee			

THIS LETTER IS PROTECTED BY THE PRIVACY ACT OF 1974

medical record

DATE

# NOTICE OF SIGNIFICANT THRESHOLD SHIFT

NAME:	SSN:	CODE/DEPT
Ref: (a) 29 CFR 1910.9	95	
Hearing Conservation Prodeterioration in your he Significant Threshold Shor will be scheduled for Also, you may be given a	nift (STS). Because of to one or more hearing tes a medical examination to	
protection devices and g	given you a reindoctrinat quirements. In addition,	th properly fitted hearing tion of the Hearing the following steps have be
Follow-up Au Medical Cons Referral to Other	sultation Audiologist	
hearing protection at all in the vicinity of noise		
PATIENT SIGNATURE:		DATE:
(Audiometric	C Technician's Signature	and Stamp) (date)

			DATE
OCCUPATIONAL EXPOSURE T	O BLOOD AND/OR BODY FI	JUIDS	
HEALTHCARE PROFESSIONAL	'S WRITTEN OPINION in	the case of:	
Name:	SSN:	Dept/Code:	
<ol> <li>The above noted ind regarding exposure to be examination the followi</li> </ol>	lood and/or body fluid	ds. On the basis of t	
<ol> <li>There ARE/ARE NOT r receive hepatitis B vac the following findings:</li> </ol>	cination. Limitations		
3. The employee has be and about any medical copotentially infectious treatment.	onditions resulting fr	rom exposure to blood	or other
(employee's signatu	re)		
	(examiner's signature	and stamp)	(date)

Original: employer Copies: employee

medical record

		DATE
OCCUPATIONAL EXPOSURE TO BUTADIENE		
PHYSICIAN'S WRITTEN OPINION in the	case of:	
Name:	SSN:	Dept/Code:
1. The above noted individual was regarding occupational exposure to examination the following comments	butadiene. On the ba	
2. A medical condition WAS/WAS NOT an increased risk of material impair Comments (if applicable):		
4. Limitations ARE/ARE NOT recomme butadiene.	ended on this individu	aal's exposure to
3. Limitations ARE/ARE NOT recomme of personal protective equipment, i applicable):		
4. The employee has been counseled evaluation, and of any medical condithat require further evaluation or	ditions resulting from	

5. Next biological monitoring or medical examination scheduled for

\_\_\_\_(date)

(examiner's signature and stamp) (date)

Original: employer Copies: employee

medical record

			DATE
OCCUPATIONAL EXPOSURE TO	O CADMIUM		
PHYSICIAN'S WRITTEN OPIN	NION in the case of:		
Name:	ggn.	Dept/Code:	
Ivalile ·	5511		
1. The above noted indergarding occupational at the following comments a	exposure to cadmium.	according to 29 CFR 1910 On the basis of this ex	
2. A medical condition an increased risk of mat Comments (if applicable	terial impairment of h	that would place the ennealth from exposure to	
3. Limitations ARE/ARE of personal protective eapplicable):			
4. The employee has been evaluation, including reconditions resulting from treatment, and any limit	esults of biological r om cadmium exposure th	monitoring, and of any mat require further eval	medical Luation or
5. Next biological mon:	itoring or medical exa	amination scheduled for	
(employee's signature)		(date)	
	(examiner's signature	e and stamp)	(date)

Original: employer Copies: employee

medical record

		DAT
OCCUPATIONAL EXPOSURE TO	ETHYLENE OXIDE	
PHYSICIAN'S WRITTEN OPIN	NION in the case of:	
Name:	SSN:	Dept/Code:
	exposure to ethylene ox	cording to 29 CFR 1910.1047 ide. On the basis of this ed:
	erial impairment of he	hat would place the employee at alth from exposure to ethylene
		s individual's exposure or use spirators. Comments (if
	edical conditions resul	the results of this medical ting from ethylene oxide eatment.
	(examiner's signature	and stamp) (date

Original: employer Copies: employee

medical record

	-	DAT	E
OCCUPATIONAL EXPOSURE TO FORM	MALDEHYDE		
PHYSICIAN'S WRITTEN OPINION i	in the case of:		
Name:	SSN:	Dept/Code:	
1. The above noted individual regarding exposure to formation following comments are submit	dehyde. On the basi		
2. A medical condition WAS/W an increased risk of material formaldehyde. Comments (if a	l impairment of heal	at would place the employee at th from exposure to	
3. Limitations ARE/ARE NOT r of personal protective equipm applicable):			
evaluation, (2) any medical of	conditions which wou have resulted from	.) the results of this medical ald be aggravated by exposure past formaldehyde exposure or there is a need for further	

(examiner's signature and stamp) (date)

Original: employer Copies: employee

medical record

OCCUPATIONA	AL EXPOSURE T	O LEAD	_		D	ATE
PHYSICIAN'S	S WRITTEN OPI	NION in the ca	ase of:			
Name:			SSN:			
regarding of		exposure to l			CFR 1910.1025 is examination	the
an increase		terial impair			e the employee sure to lead.	at
2		NOT	ded ee whie			
	l protective	NOT recomment equipment, in			exposure or us mments (if	e
evaluation	and of any m		ions resulti		this medical exposure that	
		(examiner's	signature an	d stamp)	(da	
Original: Copies:	employer employee	( 2324			( du	,

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medical record

	_	
OCCUPATIONAL EXPOSURE TO	METHYLENE CHLORIDE	DATE
PHYSICIAN'S WRITTEN OPIN	NION in the case of:	
Name:	SSN:	Dept/Code:
	exposure to cadmium. On	ording to 29 CFR 1910.1027 the basis of this examination
	erial impairment of heal	t would place the employee at th from exposure to cadmium.
	NOT recommended on this equipment, including resp	individual's exposure or use irators. Comments (if
4. The employee has bee occupational carcinogen;		e chloride is a potential
potential for exacerbati	en informed of risk facto on of underlying heart of agh its metabolism to car	
evaluation and of any me	edical conditions resulti	ne results of this medical ng from methylene chloride eatment, as noted by his/her
(employee's signat	ure)	
	(examiner's signature and	d stamp) (date)

Original: employer Copies: employee

medical record

#### APPENDIX F

American Cancer Society (ACS) recommendations to maximize the performance of the Hemoccult II.

- 1. Subjects should avoid ingesting red meat and high-peroxidase foods for three days before and during testing.
- 2. Use of vitamin C, iron tablets and nonsteroidal anti-inflammatory drugs should be avoided.
  - 3. Two samples of each of three consecutive stools should be tested.
- 4. The delay between preparation and laboratory testing should not exceed three days.
  - 5. Slides should not be rehydrated.
- 6. A single positive smear should be considered a positive test result, even in the absence of dietary restriction.

ACS recommendations for the early detection of cancer in asymptomatic people include:

#### Population

Test or Procedure	Sex	Age	Frequency
Stool Guiac Slide Test	M & F	Over 50	Every Year
Digital Rectal Examination	M & F	Over 40	Every Year

REFERENCE: Knight KK, Fielding JE, Battista RN. Occult Blood Screening for Colorectal Screening. JAMA. 1989;261:587-593.

# APPENDIX G

# ALPHABETICAL LISTING OF STRESSORS

Progr		
Numbe	er Stressor/Program Name	Page
102	2-ACETYLAMINOFLUORENE	4-1
601	ACID/ALKALI (PH <4.0 OR > 11.0)	
103	ACRYLAMIDE	
104	ACRYLONITRILE (VINYL CHLORIDE)	
105	ALLYL CHLORIDE	
152	ALLYL GLYCIDYL ETHER (AGE)	
106	4-AMINODIPHENYL	4-9
107	AMMONIA	8-11
113	AMOSITE	4-17
108	ANESTHETIC GASES	6-3
207	ANIMAL ASSOCIATED DISEASE	6-5
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